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March 30, 2021

To: Dan Bowser, et al.

Re: **Colonial Pipeline SR 2448/Pipeline ROW  
Incident Number 95827  
Huntersville, North Carolina**

Dear Dan,

Colonial Pipeline Company (Colonial) is pleased to transmit the required Monthly Monitoring Report for March 2021 regarding the above-referenced incident. This report was prepared in conjunction with Apex Engineering, PC.

As discussed during briefings, Colonial continues to perform assessment and product recovery activities.

If you have any questions or require additional information, please contact either John Culbreath at 704.399.5259 / [jculbrea@colpipe.com](mailto:jculbrea@colpipe.com) or myself at 770.819.3566 / [jmorrison@colpipe.com](mailto:jmorrison@colpipe.com).

Respectfully,

Jeff D. Morrison  
Environmental Program Manager



**Monthly Monitoring Report  
SR 2448 / Pipeline Right of Way  
Incident Number 95827**

Huntersville, Mecklenburg County, North Carolina 28078

March 30, 2021

Apex Job No.: CPC20126

Prepared for:

Mr. John Wyatt  
4295 Cromwell Rd. #311  
Chattanooga, Tennessee 37421

Prepared by:

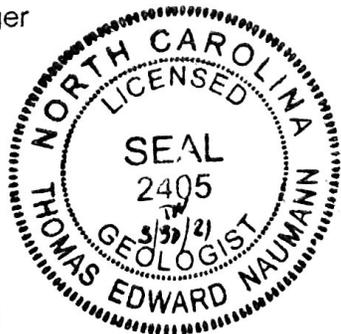
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## 1.0 INTRODUCTION

This Monthly Monitoring Report presents the results of the soil sampling, groundwater monitoring, surface water monitoring, and free product recovery performed at the Colonial Pipeline Company (CPC) Huntersville-Concord Road (State Road 2448 [SR 2448]) pipeline release site located near Huntersville, Mecklenburg County, North Carolina (the Site). A Comprehensive Site Assessment (CSA) Report was prepared for the Site and submitted to the North Carolina Department of Environmental Quality (NCDEQ) on January 20, 2021 and most recently, a Monthly Monitoring Report was submitted to NCDEQ on March 12, 2021. This report details site monitoring and free product recovery activities and results subsequent to those reported in the above mentioned reports. Apex Companies, LLC (dba Apex Engineering, P.C.; Apex) prepared this Monthly Monitoring Report on behalf of CPC for submittal to NCDEQ.

### 1.1 Site History And Characterization

The CPC Line 1 gasoline release was discovered on August 14, 2020, within the CPC right of way on the Oehler Nature Preserve, approximately 350 feet northeast of where the CPC pipelines cross SR 2448 (**Figure 1** and **Figure 2**). The release is referred to herein as Incident Number (No.) 95827.

The area within a 1,500 foot radius of the Site is a mixture of low density residential properties, agricultural properties, and wooded land. Properties within a 1,500 foot radius of the release area obtain potable water from public water supply or private water supply wells (**Figure 3**). The Site is located within the Yadkin Pee-Dee River Basin. North Prong Clarke Creek is located approximately 1,800 feet north of the release area and South Prong Clarke Creek is located approximately 2,700 feet south of the release area, both of which are characterized by the NCDEQ Division of Water Quality as Class C water bodies, meaning that they are protected for non-drinking water purposes such as biological integrity, fishing, and infrequent secondary recreational purposes (i.e., wading).

Mecklenburg County is located within the Piedmont physiographic province, characterized by rolling hills and moderately steep valleys formed by stream erosion of upland areas. Elevations at the Site range from approximately 650 to 750 feet above mean sea level. The surficial soils at the Site consist almost entirely of fine-grained clayey to silty saprolite developed from the weathering of the underlying bedrock. The soil thickness ranges from a few feet to greater than 100 feet. Data obtained from completed borings indicate the Site is underlain by quartz diorite.

In accordance with the Risk Based Corrective Action rules framework, corrective action objectives for impacted-groundwater at the Site are based on risk classification criteria and the associated remedial goals established under North Carolina 15A NCAC 2L .0506 regulations. The risk classification for a site is based on multiple factors, including the distance from the source area of a release to receptors such as surface water bodies and water supply wells. The risk classification for the Site is 'high risk' due to the presence of multiple water supply wells within 1,000 feet of the release (**Figure 3**). Groundwater remediation goals for sites classified as high risk are the 2L Groundwater Quality Standards.

## 2.0 SOIL SAMPLING ACTIVITIES AND RESULTS

Soil sampling was completed subsequent to Line 1 and Line 2 inspection and recoating activities utilizing hand tools. Soil assessment activities were also completed during monitoring well and recovery well installation activities. Soil borings are advanced with either a Geoprobe® direct-push drill rig, a sonic drill rig, and/or utilizing split spoons. Soil cores were retrieved, and samples were collected from target intervals, placed in airtight containers, and allowed to equilibrate for approximately 15 minutes before measuring volatile organic compound (VOC) headspace readings with a photoionization detector (PID). The samples exhibiting the highest headspace readings were typically selected for chemical analysis unless free product was present. In cases where there were no significant PID measurements in a boring (i.e. less than 5.0 ppm), the depth interval corresponding to the terminus of the unsaturated zone was typically selected for chemical analysis. Soil samples were submitted to Pace Analytical, LLC (Pace) for laboratory analysis of the following chemical specific parameters in accordance with NCDEQ requirements:

- VOCs by EPA Method 8260D; and
- Volatile Petroleum Hydrocarbons (VPH) by the Massachusetts Department of Environmental Quality (MADEP) Method.

Results of the soil sampling analysis are summarized in **Table 1**, **Table 2** and on **Figure 4**. Laboratory analytical reports are provided in **Appendix A**.

### 3.0 WELL GAUGING ACTIVITIES

The recovery well pumping system was shut down for approximately 24 hours on March 2, 2021 to facilitate gauging of the monitoring and recovery well network under steady state conditions on March 4, 2021. Groundwater at the Site flows in a general northerly and southerly direction. The monitoring well and recovery well gauging data is presented in **Table 3** and **Table 4**, respectively. Groundwater potentiometric surface maps for the surficial and bedrock units are provided as **Figure 5** and **Figure 6**, respectively. A free product distribution map is provided as **Figure 7**.

### 4.0 GROUNDWATER INVESTIGATION ACTIVITIES AND RESULTS

Between August 27, 2020 through March 26, 2021, 96 monitoring wells were installed at the Site utilizing hollow stem auger, air rotary, and sonic drilling methods. Shallow monitoring wells are typically constructed as Type II wells with the well screen bracketing the water table. Deep monitoring wells are constructed with isolation casings extending from ground surface and tremie grouted approximately 10 feet into the consolidated bedrock unit, and an open borehole without casing or screen extends through the isolation casing and into the bedrock unit. Boring logs generated since the previous report are provided as **Appendix B**.

Well development was performed to evacuate any potable water and sediment introduced during the well drilling and installation process. Monitoring well development was performed by lowering a decontaminated submersible pump into the screen interval of the well, surging the pump to bring sediment into suspension and pumping multiple well volumes until the purge water was generally free of sediment. Drill cuttings and well development fluids were contained for off-site disposal.

Each monitoring well present and without measurable free product at the time of the groundwater monitoring event for this reporting period was sampled between March 8 – March 12, 2021. Monitoring well sampling was performed in accordance with the United States Environmental Protection Agency (U.S. EPA) “Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells”. During low-flow purging and sampling activities, continuous parameter readings were collected through a flow-through cell and measured for select stabilization parameters including: temperature, specific conductance, pH, oxygen reduction potential, dissolved oxygen, and turbidity. These parameters were recorded at periodic intervals. Typical criteria for stabilization is defined as specific conductance within 3%, pH within 0.1 units, oxidation reduction potential within 10 millivolts, dissolved oxygen within 0.3 milligrams per liter (mg/L), and turbidity within 10% over three consecutive measurements.

Groundwater samples were collected in laboratory supplied bottle ware, placed on ice, and transported, via chain-of-custody protocol, to Pace. Samples were analyzed for the presence of VOCs by EPA Method 6200, VPH by the MADEP Method, and lead by EPA method 6010D. Groundwater sampling logs are provided in **Appendix C**. Detections of analyzed constituents in monitoring wells are depicted on **Figure 8**. Isoconcentration maps for benzene, diisopropyl ether, methyl-tert butyl ether, naphthalene, total xylenes, and C5-C8 Aliphatics are provided as **Figure 9** through **Figure 15**, respectively. Analytical results are summarized in **Table 5** and copies of the laboratory reports are provided in **Appendix A**. Detections of lead, bromodichloromethane, and dibromochloromethane are not attributed to Incident No. 95827.

Weekly WSW sampling was completed by Apex during the reporting period. WSW samples were collected in laboratory supplied bottle ware, placed on ice, and transported, via standard chain-of-custody protocol, to Pace. Samples were analyzed for the presence of VOCs by EPA Method 6200, VPH by the MADEP Method, and lead by EPA method 6010D. WSW sampling results are depicted on **Figure 16** and summarized in **Table 6**. Copies of the laboratory reports are provided in **Appendix A**.

At the time of this submittal, there have been no detections of petroleum constituents in WSW samples. In accordance with NCDEQ guidance, and based on current data, CPC will continue sampling residential WSWs within 1,500 feet of the release site.

## 5.0 SURFACE WATER INVESTIGATION ACTIVITIES AND RESULTS

The Site is located within the Yadkin Pee-Dee River Basin. North Prong Clarke Creek is located approximately 1,800 feet north of the release area and South Prong Clarke Creek is located approximately 2,700 feet south of the release area, both of which are classified as Class C water bodies by the NCDEQ Division of Water Resources. Two groundwater seeps and an ephemeral stream are located approximately 1,200 feet southeast of the release area. The ephemeral stream flows to South Prong Clarke Creek.

Surface water sampling was conducted by Environmental Planning Specialists, Inc. (EPS) at seven locations (SW-1 through SW-7). Surface water samples were also collected from the two groundwater seep locations (SW-Seep and SW-Seep 2) the receiving ephemeral stream (SW-Confluence and SW-Confluence 2). Surface water samples were collected in laboratory supplied bottle ware, placed on ice, and transported, via chain-of-custody protocol, to Pace. Samples were analyzed for the presence of benzene, toluene, ethylbenzene, xylenes (BTEX) by EPA Method 8260D and total petroleum hydrocarbons gasoline range organics by EPA Method 8015C. All surface water samples collected to date have been non-detect for the petroleum constituents analyzed. A surface water sample locations map, surface water sampling results, and general surface water parameter measurements are provided in **Appendix D**.

## 6.0 REMEDIATION ACTIVITIES SUMMARY

### 6.1 Air Sparge and Soil Vapor Extraction System

A 72-hour pilot test for the air sparge and soil vapor extraction system is pending. The objective of the air sparge and soil vapor extraction system is to decrease the migration of dissolved phase hydrocarbons south of the release area and recovery well network. At present, 14 air sparge wells and 11 soil vapor extraction wells have been installed (**Figure 17**). Vapor recovered from soil vapor extraction wells is routed through a temporary thermal oxidation unit. Trailer and skid mounted air sparge and soil vapor extraction equipment will be utilized as an interim remedial measure until NCDEQ approval of the CAP for Incident No. 95827.

### 6.2 Free Product Recovery Activities

A total of 62 vacuum enhanced recovery wells and 56 hydraulic control wells have been installed within the release area (**Figure 18**). Pneumatic recovery pumps are operated in the wells and vacuum is applied to the wells to enhance recovery. As of March 25, 2021, approximately 867,026 gallons of gasoline free product and approximately 896,243 gallons of petroleum contact water have been recovered from the recovery well network. Total product recovery during the initial soil excavation (1,257 gallons), the emergency response activities (90,930 gallons), soil vapor recovery (2,039 gallons), and from the recovery well network is approximately 961,252 gallons. Recovered free product was transported for reprocessing to Midwest Gas Company located in Columbus, Ohio and the CPC Facility located in Greensboro, North Carolina.

## 7.0 WASTE DISPOSAL ACTIVITIES

Waste streams and recovered petroleum fuels generated at the site in connection with abatement and corrective action activities include petroleum contact water and soil. Petroleum contact water has been sent to Aaron Oil Company, Inc. located in Saraland, Alabama, Allied Waste Services of Birmingham, Alabama, Heritage Crystal-Clean of Concord, North Carolina, Midwest Gas Company of Columbus, Ohio, and Legacy Environmental Services of Charlotte, North Carolina for processing. Copies of bills of lading and waste manifests covering the February 2021 period are provided in **Appendix E**.

## 8.0 CONCLUSIONS

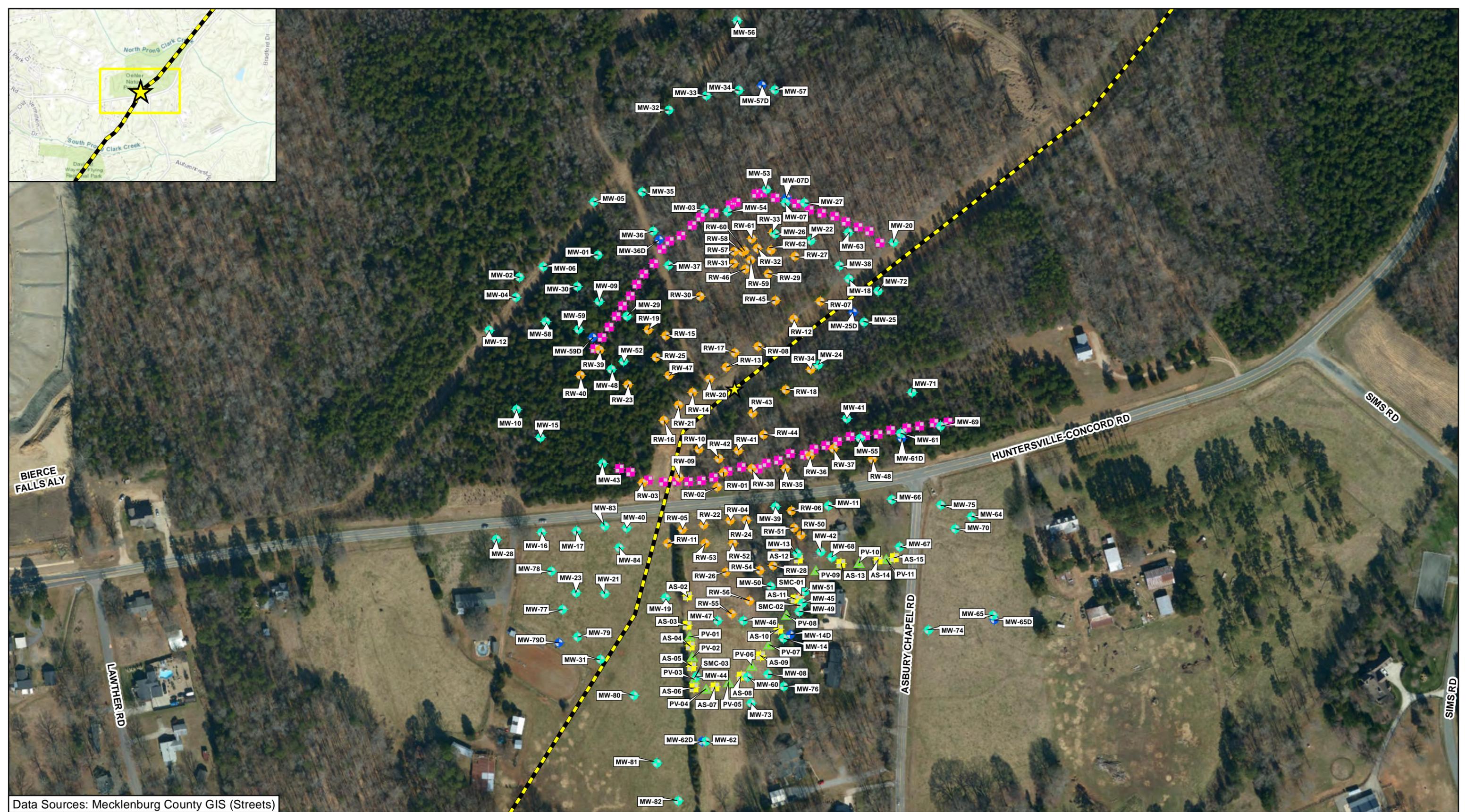
A total of 239 wells (96 monitoring wells, 62 recovery wells, 56 hydraulic control wells, and 25 air sparge system wells) were installed at the Site between August 27, 2020 and March 26, 2021. Detections of lead, bromodichloromethane, and dibromochloromethane are not attributed to Incident No. 95827. **Figure 9** through **Figure 15**, depict the horizontal and vertical extent of dissolved phase petroleum impacts, based on the March 2021 groundwater sampling results. Weekly WSW sampling and bi-weekly surface water sampling continue to show no petroleum constituents. Free product recovery activities will continue. As per NCDEQ's Notice dated September 25, 2020, groundwater monitoring reports will be submitted to the NCDEQ Mooresville Regional Office each subsequent month until that schedule is revised.

## FIGURES



Data Sources: US Geological Survey (Elevation Products)

	Checked By:	AS	<p align="center"><b>Site Location Map</b>  <b>Colonial Pipeline Company</b>  <b>2020-L1-SR2448</b>  <b>Huntersville, North Carolina</b></p> <p>0    400    800    1,600    2,400  Feet</p>			Figure	<p align="center"><b>1</b></p>	  
	Created By:	JC				<p align="center">★ Release Site</p>		
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	Date/Time:	1/15/2021; 08:29						
	Project No.:	CPC20126						



Data Sources: Mecklenburg County GIS (Streets)

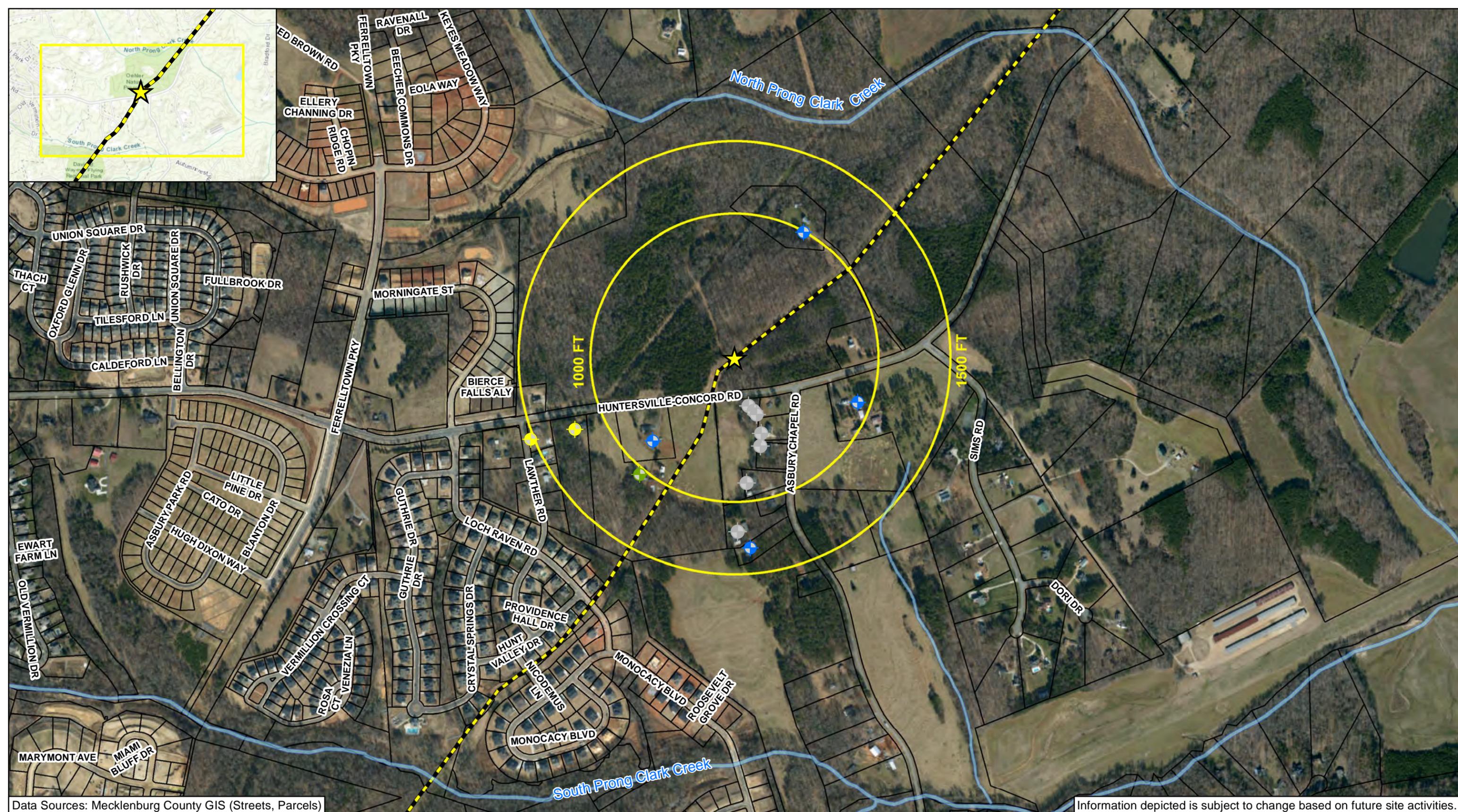
	Checked By:	--
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Project No.:		CPC20126

**Site Plan**  
**Colonial Pipeline Company**  
**2020-L1-SR2448 Release**  
**Huntersville, North Carolina**

0      200      400      600  
 Feet

Release Site	Monitoring Well	Air Sparge
Pipeline	Monitoring Well (Bedrock)	Vapor Point
	Recovery Well	Piezometer
	Hydraulic Control Well	

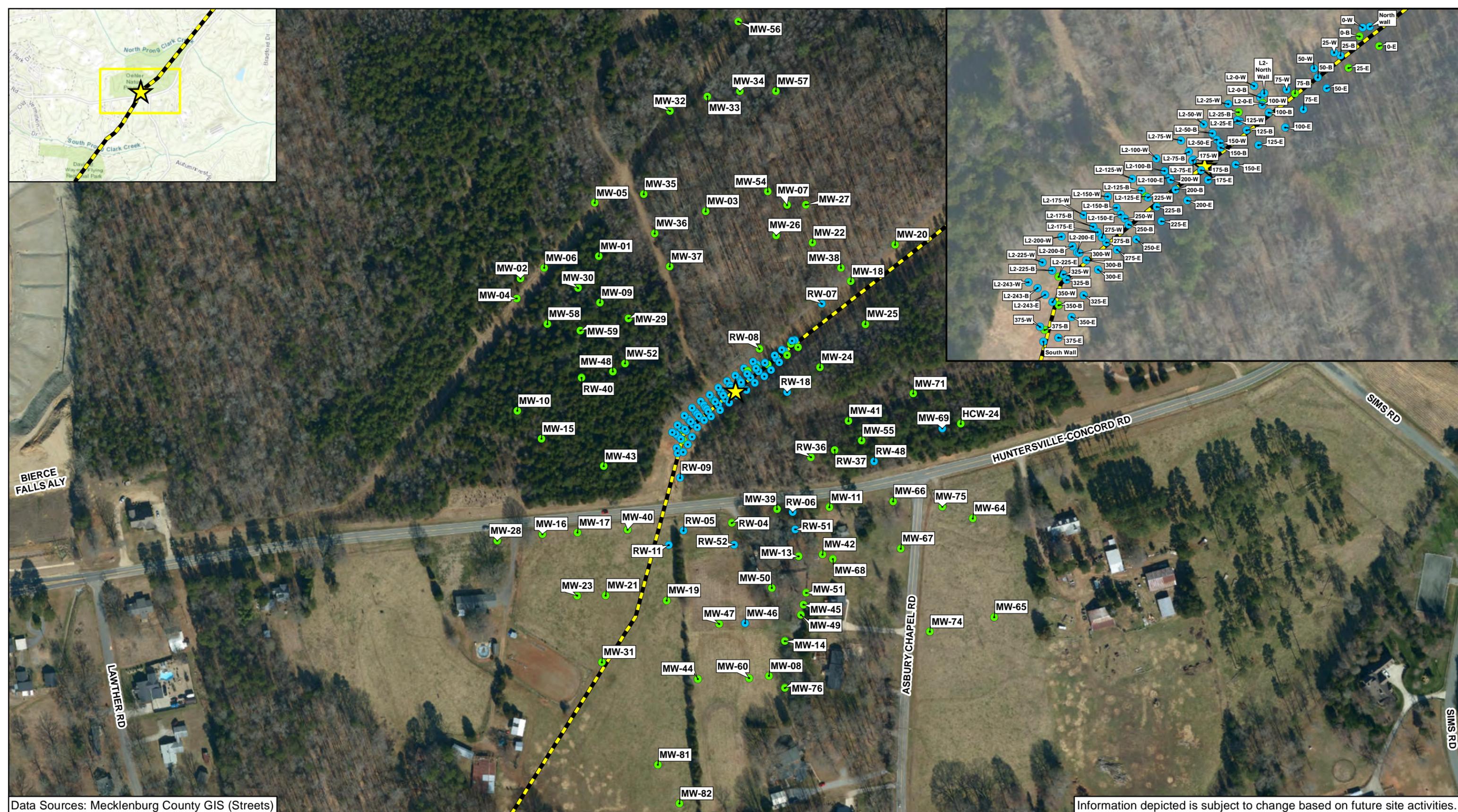




Data Sources: Mecklenburg County GIS (Streets, Parcels)

Information depicted is subject to change based on future site activities.

	Checked By:	AS	<h3>Potential Receptor Map</h3> <h3>Colonial Pipeline Company</h3> <p>2020-L1-SR2448</p> <h3>Huntersville, North Carolina</h3>	Release Site Pipeline Parcel Boundaries	Water Supply Well (Potable Use) Water Supply Well (Abandoned)	Water Supply Well (Non-Potable Use) Water Supply Well (Inactive Use)			FIGURE  <b>3</b>
	Created By:	BM							
	Scale:	1" = 600 FT							
	Date/Time:	03/29/2021; 15:02							
	Project No.:	CPC20126							
			<b>Notes:</b> Only wells within 1,500 feet of release site are shown.						



Data Sources: Mecklenburg County GIS (Streets)

Information depicted is subject to change based on future site activities.

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Project No.:	CPC20126	

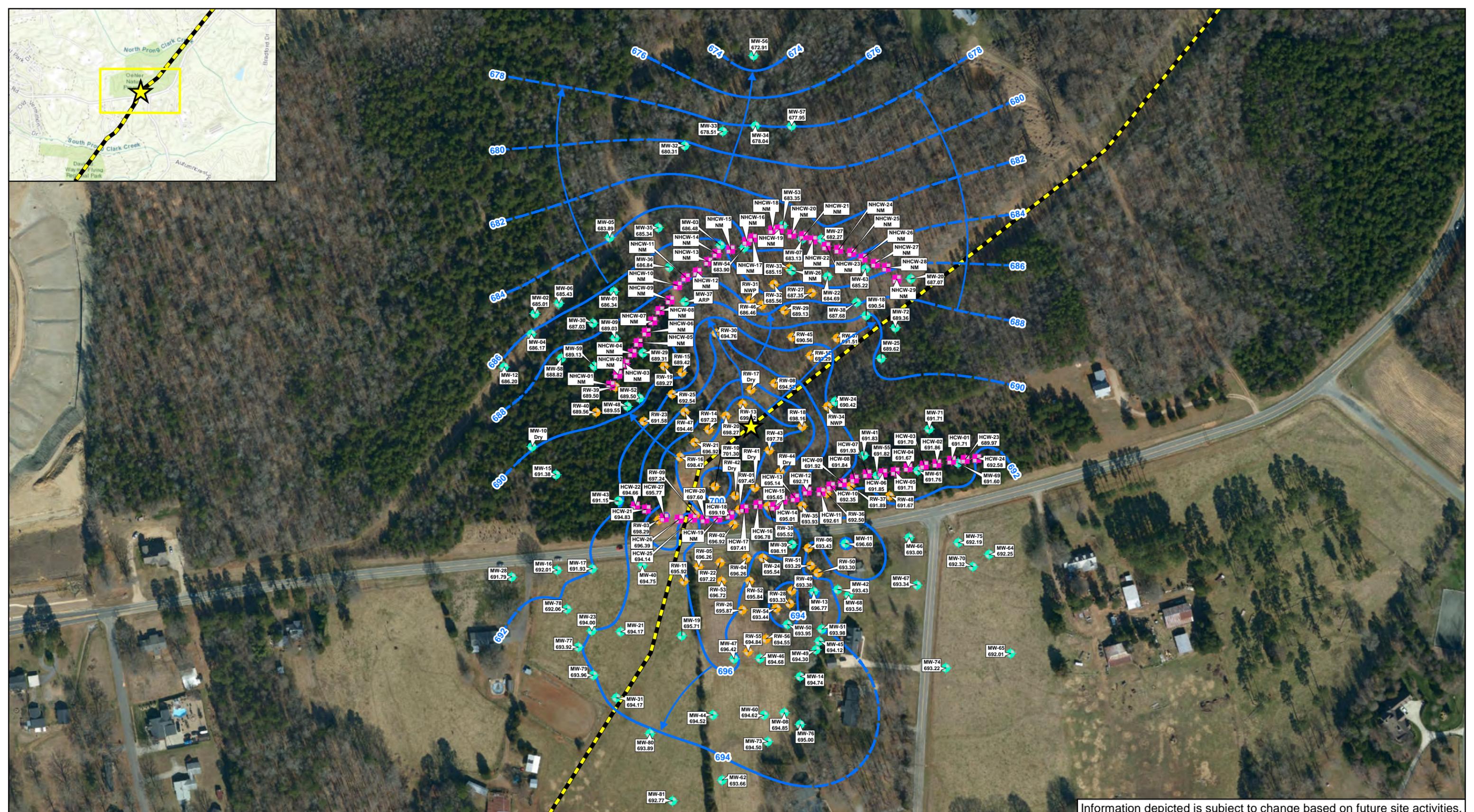
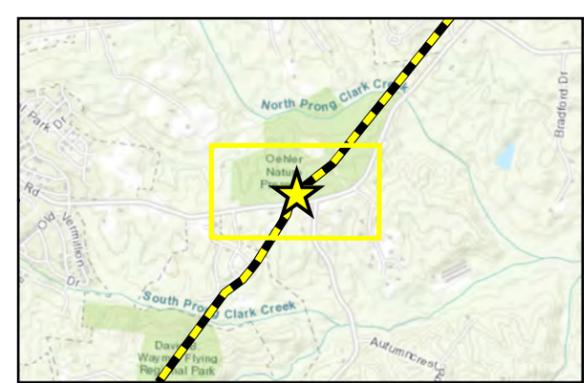
**Pipeline Excavation and  
Delineation Soil Sampling Results**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      200      400      600  
Feet

	Release Site		Below Maximum Soil Contaminant Concentration Levels (MSCCs)
	Pipeline		Exceeds Maximum Soil Contaminant Concentration Levels (MSCCs)

**Notes:** See Table 1 and Table 2 for detailed results.

		FIGURE  <span style="font-size: 2em; font-weight: bold;">4</span>
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Information depicted is subject to change based on future site activities.

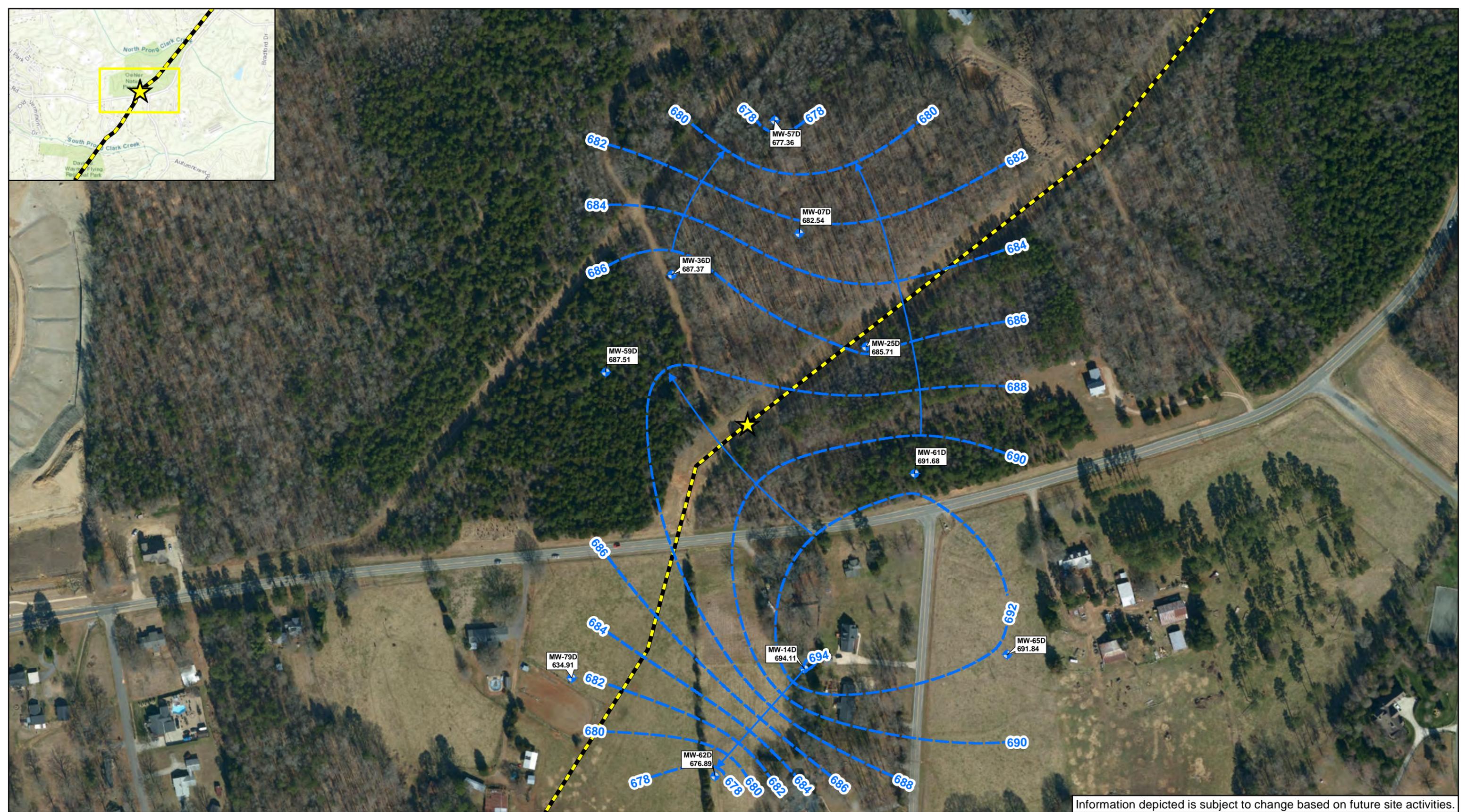
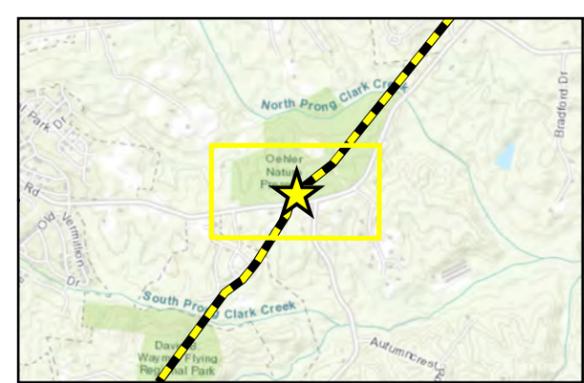
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	Created By:	JC
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Project No.:	CPC20126	

**Groundwater Potentiometric Surface Map - Surficial Unit**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      200      400      600  
 Feet

Release Site Pipeline	Equipotential Contour (ft. amsl) (Dashed where Inferred) Apparent Groundwater Flow Direction	Monitoring Well Recovery Well Hydraulic Control Well
<p><b>NOTES:</b>          Contours based on well gauging data collected 03/04/2021;          Groundwater elevation measurements shown in feet amsl (above mean sea level);          The following locations, denoted as 'NM' (Not Measured/Surveyed), ARP (Active Recovery Pump), NWP (No Water Present), or 'Dry',          were not used in contouring: MW-10 (Dry), MW-26 (NM), MW-37 (ARP), RW-17/-41/-42/-44 (Dry), RW-31/-34 (NWP), HCW-19 (NM),          NHCW-01 through -29 (NM);          Contours interpolated using Surfer (Kriging)</p>		

		FIGURE  <h1 style="font-size: 2em;">5</h1>
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Information depicted is subject to change based on future site activities.

	Checked By:	TN
	Created By:	JC
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	Date/Time:	03/26/2021; 12:37
	Project No.:	CPC20126

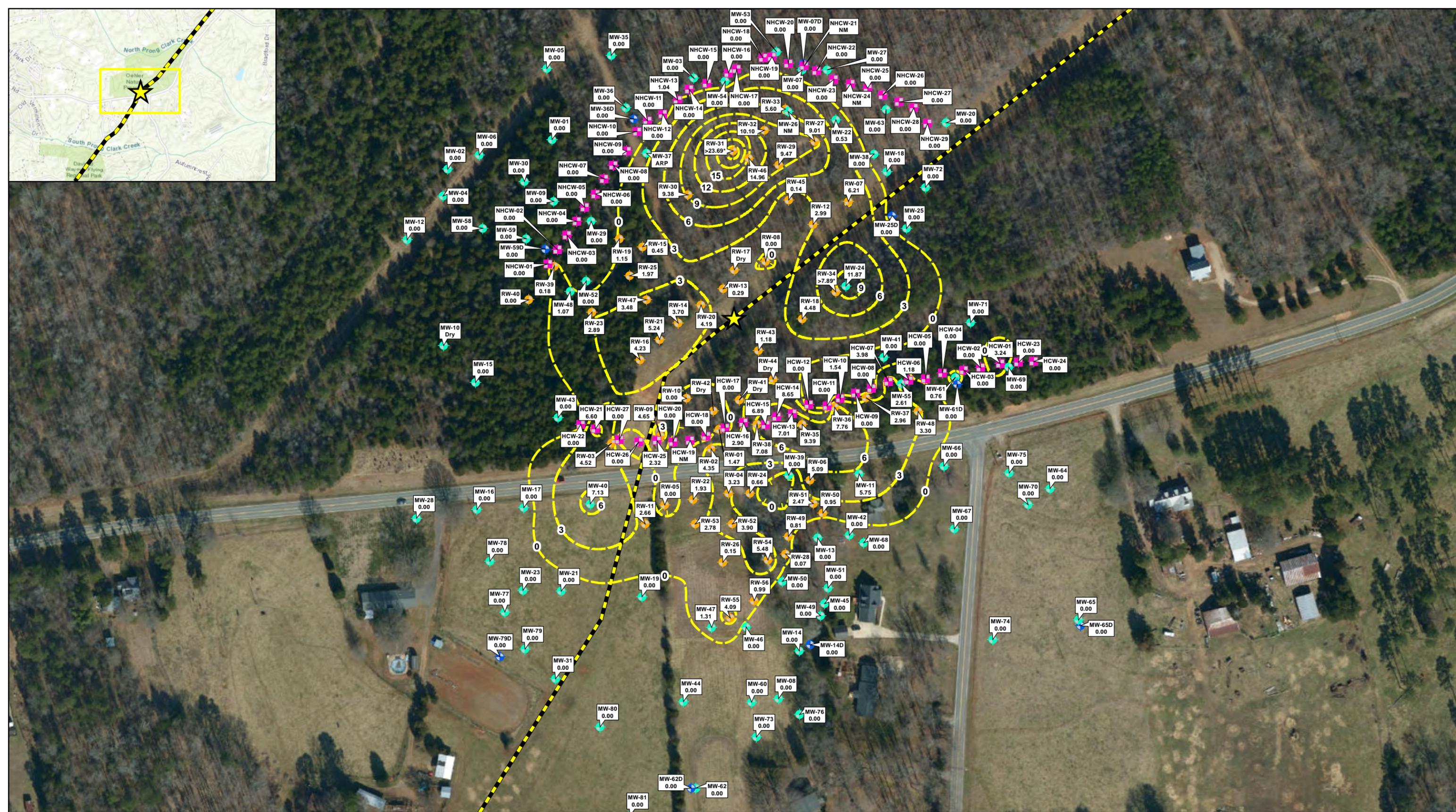
**Groundwater Potentiometric Surface Map - Bedrock Unit**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      200      400      600  
 Feet

Release Site Pipeline	Equipotential Contour (ft amsl) Apparent Groundwater Flow Direction	Monitoring Well, Bedrock
--------------------------	--	--------------------------

**NOTES:**  
 Contours based on monitoring well gauging data collected on 03/04/2021;  
 Groundwater elevation measurements shown in feet amsl (above mean sea level);  
 The following well was not used in contouring: MW-79D (outlier);  
 Contours interpolated using Surfer (Kriging)

		<b>FIGURE</b>  <b>6</b>
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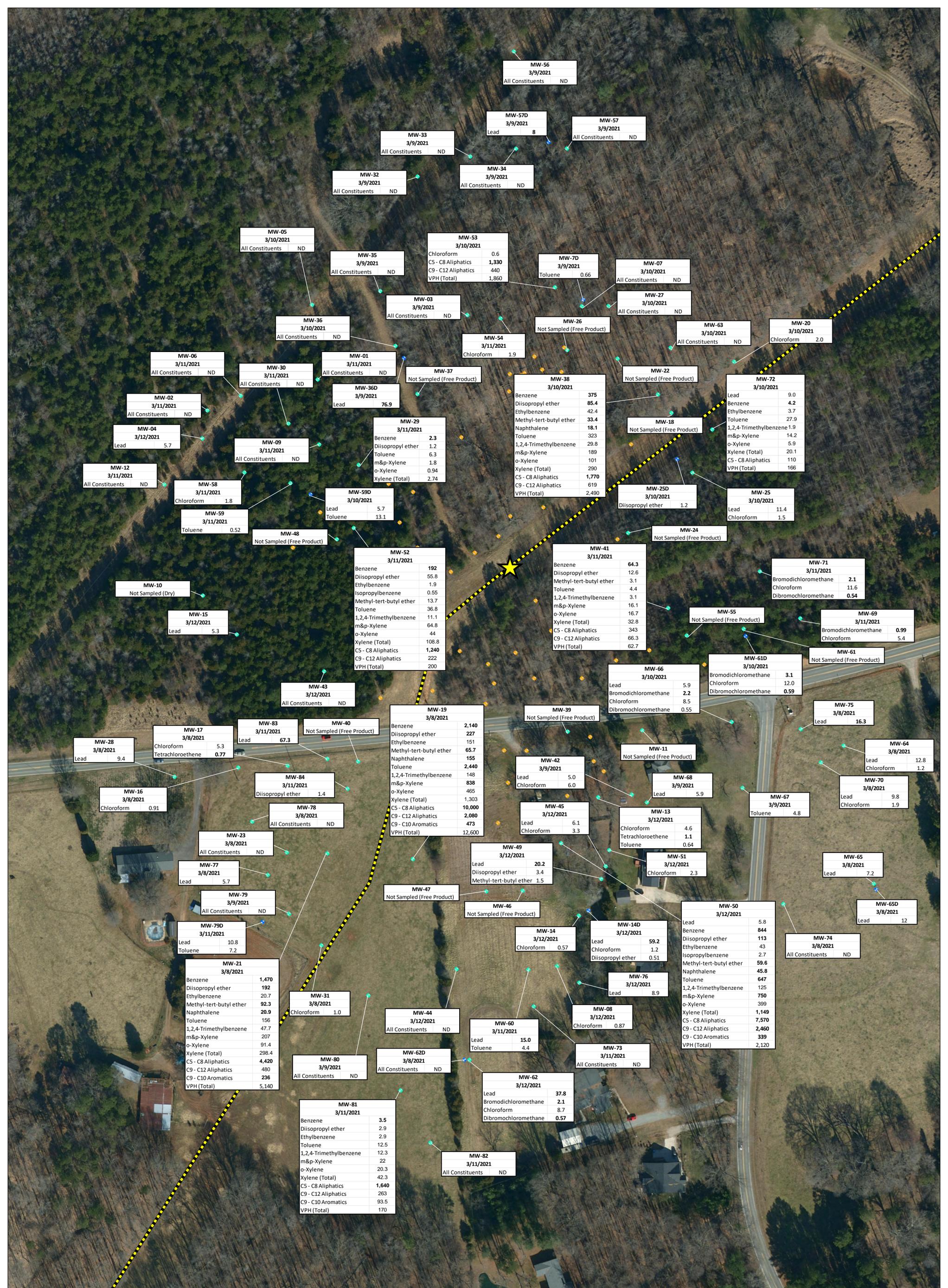
**Free Product Distribution Map**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      150      300      450  
 Feet

Release Site Pipeline Apparent Free Product Thickness Contour	Hydraulic Control Well Monitoring Well Monitoring Well (Bedrock) Recovery Well
---	---

**NOTES:**  
 All gauging measurements taken 03/04/2021;  
 Free Product Thickness determined from apparent thickness in wells only and shown in feet;  
 The following locations, denoted as NM (Not Measured/Surveyed), ARP (Active Recovery Pump), or Dry were not used in contouring: MW-10 (Dry), MW-26 (NM), MW-37 (ARP), RW-17/-41/-42/-44 (Dry), HCW-19 (NM);  
 (\*) RW-31/-34 contained no measurable groundwater;  
 Contours created using Surfer (Kriging).

		FIGURE  <span style="font-size: 2em; font-weight: bold;">7</span>
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Checked By:	--
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Scale:	1" = 65 FT
Date/Time:	03/29/2021; 15:30
Project No.:	CPC20126

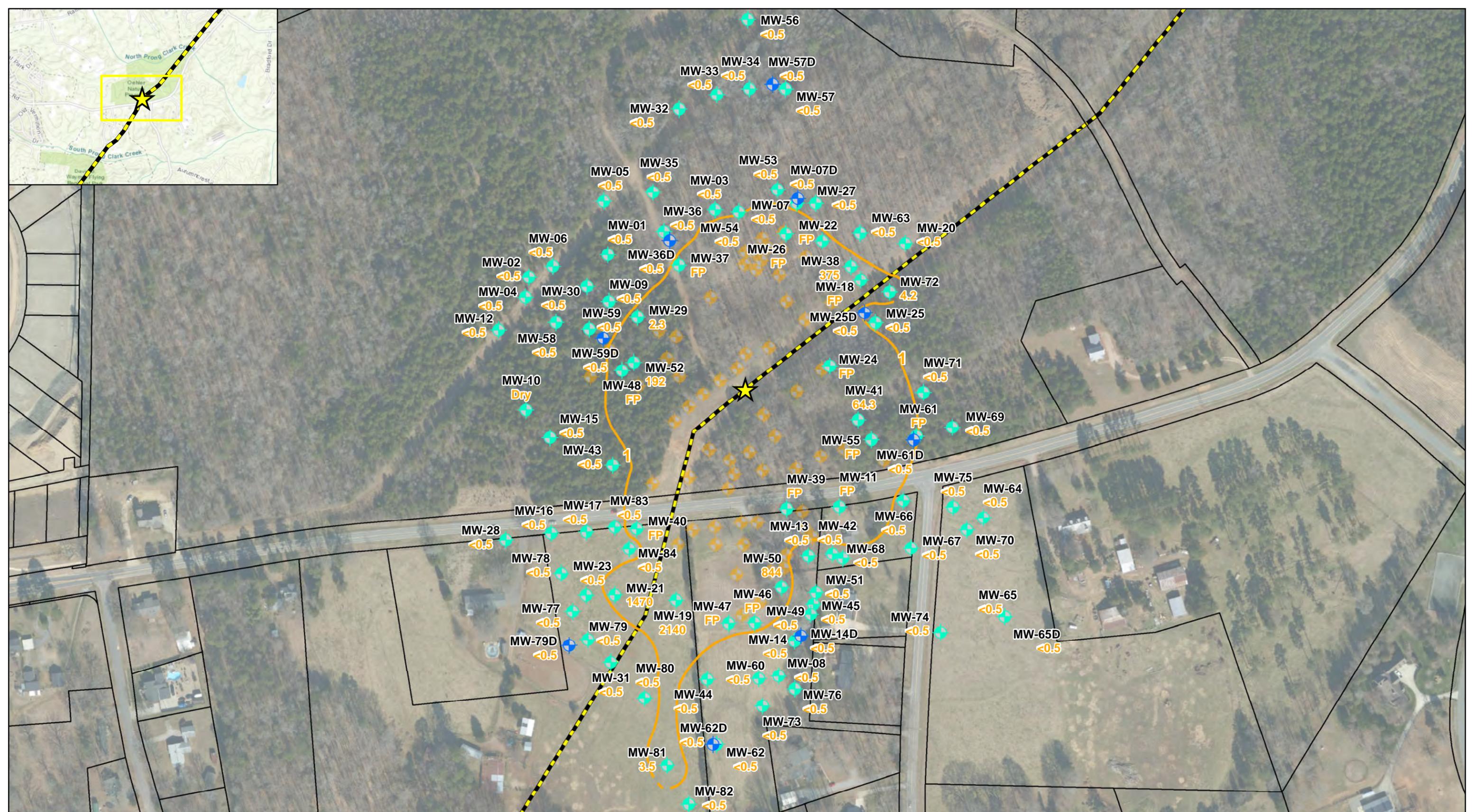
**Monitoring Well Sampling Results**  
 Colonial Pipeline Company  
 2020-L1-SR2448  
 Huntersville, North Carolina



- Release Site
- Pipeline
- Monitoring Well
- Monitoring Well (Bedrock)
- Recovery Well

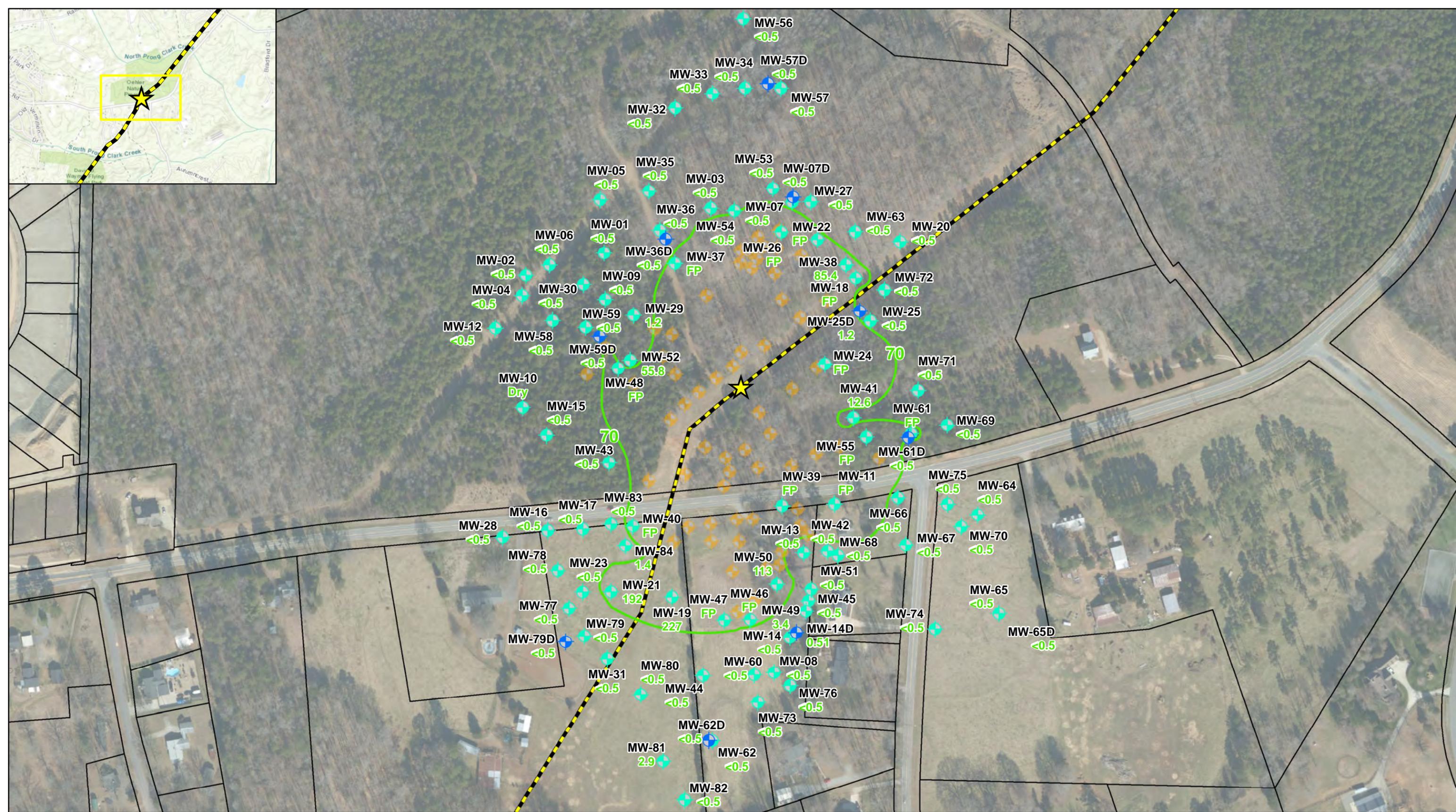
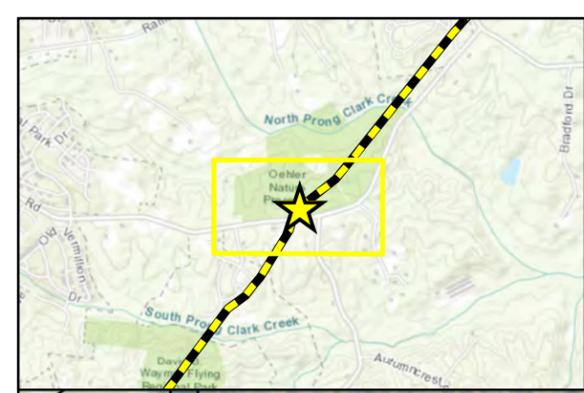
**Notes:**  
 ND = Non-Detect  
 All units reported in µg/L.  
 µg/L = Micrograms per Liter  
 Detections in **Bold** indicate an exceedance of NCAC 2L standard.  
 Only laboratory detections are shown on this map.  
 See Table 5 for complete results.





	Checked By:	--	<h3>Benzene Isoconcentration Map</h3> <h4>Colonial Pipeline Company</h4> <p>2020-L1-SR2448</p> <h4>Huntersville, North Carolina</h4>	Release Site Pipeline Benzene Isocontour (Dashed where Inferred)	<p>&lt;0.5 Constituent Not Detected Above Laboratory Practical Quantitation Limit</p> <p>3.5 Benzene Concentration (µg/L)</p> <p>FP = Free Product</p> <p>µg/L = Micrograms per Liter</p>	Recovery Well Monitoring Well Monitoring Well (Bedrock)			FIGURE  <b>9</b>
	Created By:	BM							
	Scale:	1" = 200 FT							
	Date/Time:	03/26/2021; 16:10							
	Project No.:	CPC20126							

NCDEQ 2L Standard for Benzene is 1 µg/L



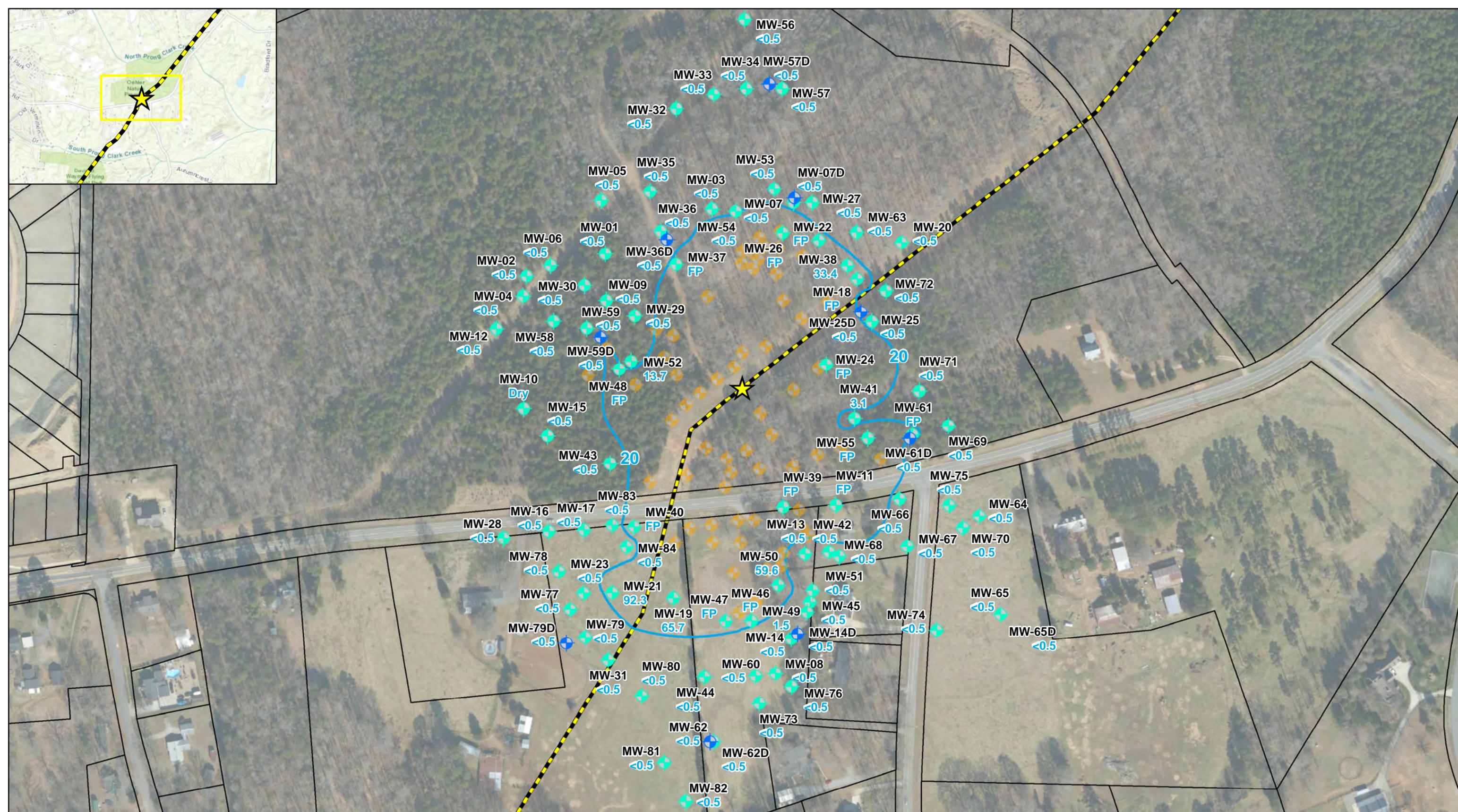
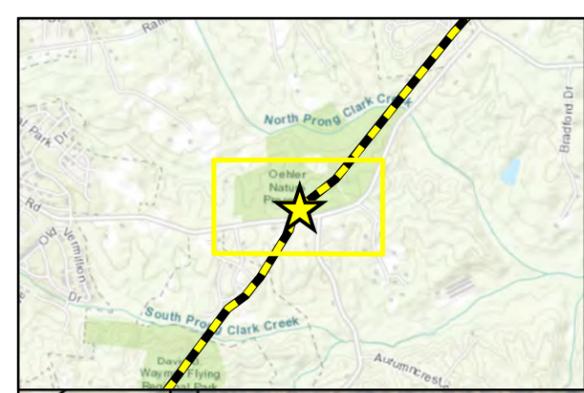
	Checked By:	--
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	Project No.:	CPC20126

**Diisopropyl Ether Isoconcentration Map**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      200      400      600  
 Feet

Release Site Pipeline Diisopropyl Ether Isocontour (Dashed where Inferred)	Constituent Not Detected Above Laboratory Practical Quantitation Limit Diisopropyl Ether Concentration (µg/L) <b>70</b> = Free Product µg/L = Micrograms per Liter	Recovery Well Monitoring Well Monitoring Well (Bedrock) NCDEQ 2L Standard for Diisopropyl Ether is 70 µg/L
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		FIGURE <h1>10</h1>
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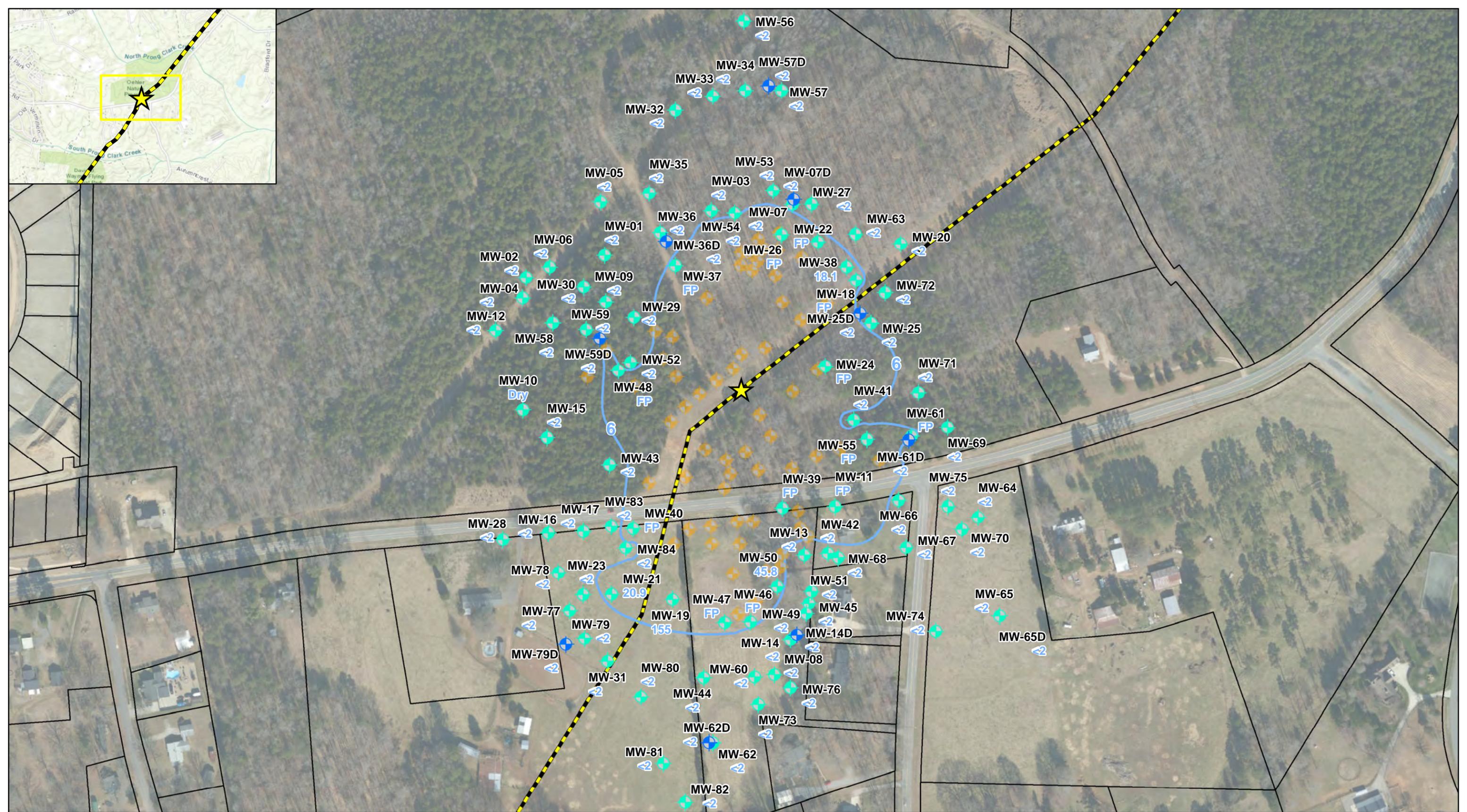
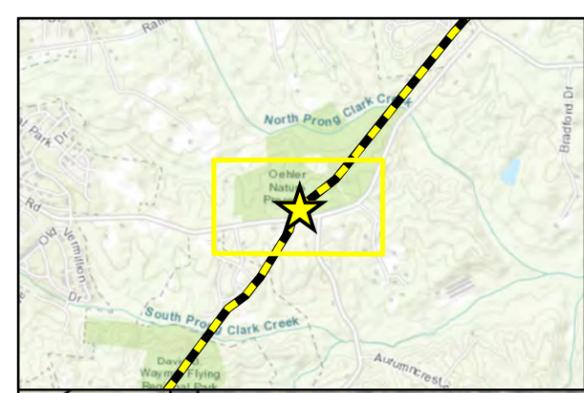


	Checked By:	--
	Created By:	BM
	Scale:	1" = 200 FT
	Date/Time:	03/26/2021; 16:22
	Project No.:	CPC20126

**Methyl-Tert Butyl Ether Isoconcentration Map**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      200      400      600  
 Feet

Release Site Pipeline Methyl-Tert Butyl Ether Isoconcentration (Dashed where Inferred)	Release Site Methyl-Tert Butyl Ether Isoconcentration (Dashed where Inferred)	<p>&lt;0.5 Constituent Not Detected Above Laboratory Practical Quantitation Limit</p> <p>3.1 Methyl-Tert Butyl Ether Concentration (µg/L)</p> <p>FP = Free Product</p> <p>µg/L = Micrograms per Liter</p>	Recovery Well Monitoring Well Monitoring Well (Bedrock)			<p>NCDEQ 2L Standard for Methyl-Tert Butyl Ether is 20 µg/L</p>	<p>FIGURE</p> <p align="center"><b>11</b></p>
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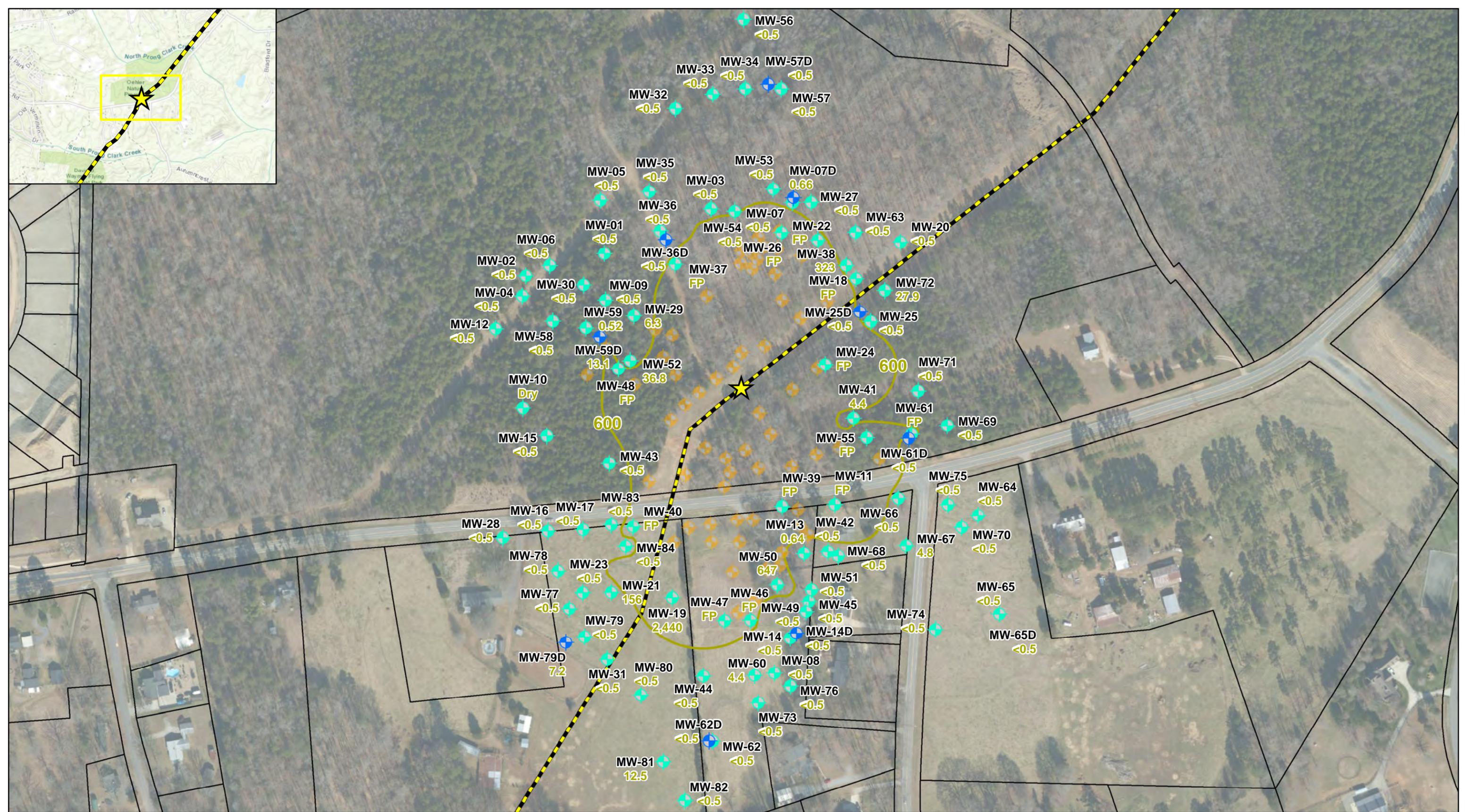
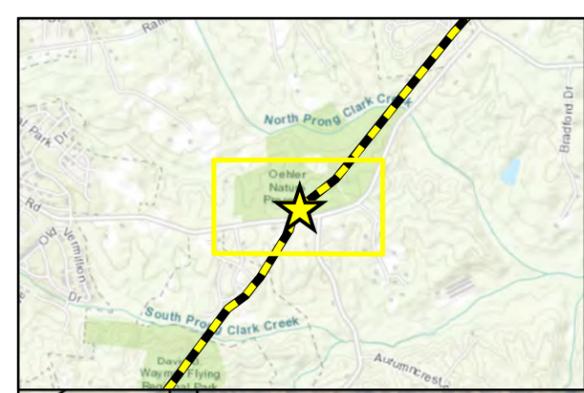
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	Project No.:	CPC20126

**Naphtahlene Isoconcentration Map**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      200      400      600  
Feet

Release Site Pipeline Naphthalene Isocontour (Dashed where Inferred)	Constituent Not Detected Above Laboratory Practical Quantitation Limit Naphthalene Concentration (µg/L) FP = Free Product µg/L = Micrograms per Liter	Recovery Well Monitoring Well Monitoring Well (Bedrock) NCDEQ 2L Standard for Naphthalene is 6 µg/L
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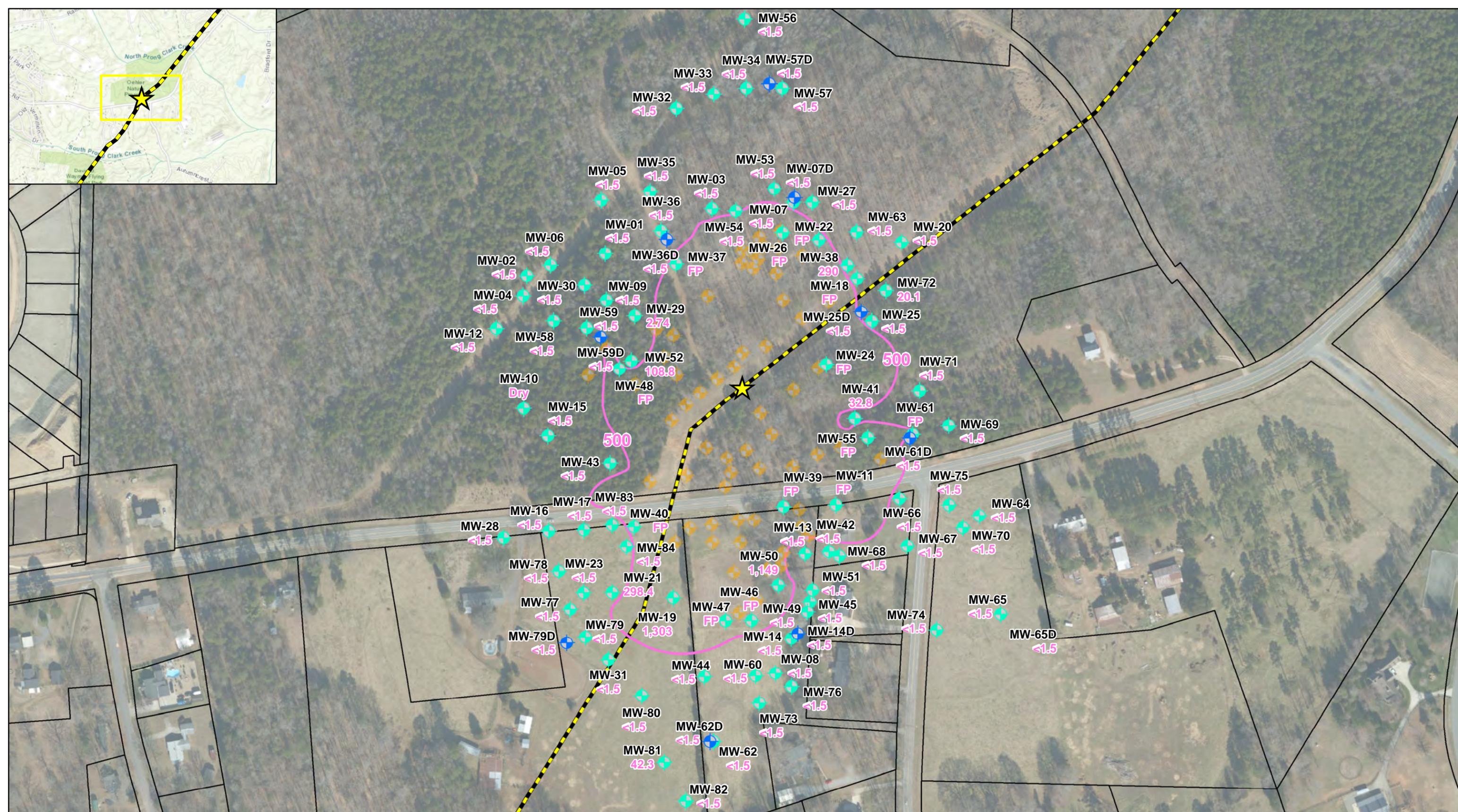
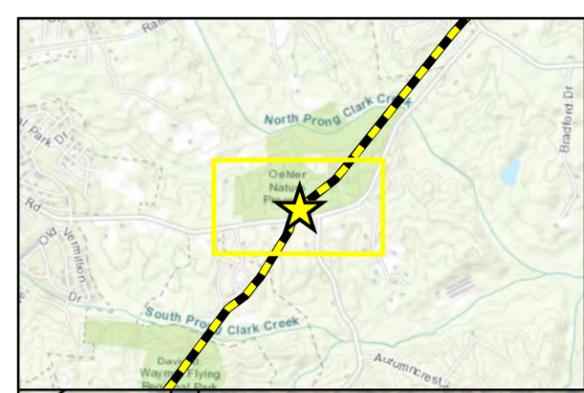
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	Project No.:	CPC20126

**Toluene Isoconcentration Map**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      200      400      600  
 Feet

Release Site Pipeline Toluene Isocontour (Dashed where Inferred)	Constituent Not Detected Above Laboratory Practical Quantitation Limit 4.4 Toluene Concentration (µg/L) FP = Free Product µg/L = Micrograms per Liter	Recovery Well Monitoring Well Monitoring Well (Bedrock) NCDEQ 2L Standard for Toluene is 600 µg/L
--	--	--

		FIGURE <h1 style="font-size: 2em;">13</h1>
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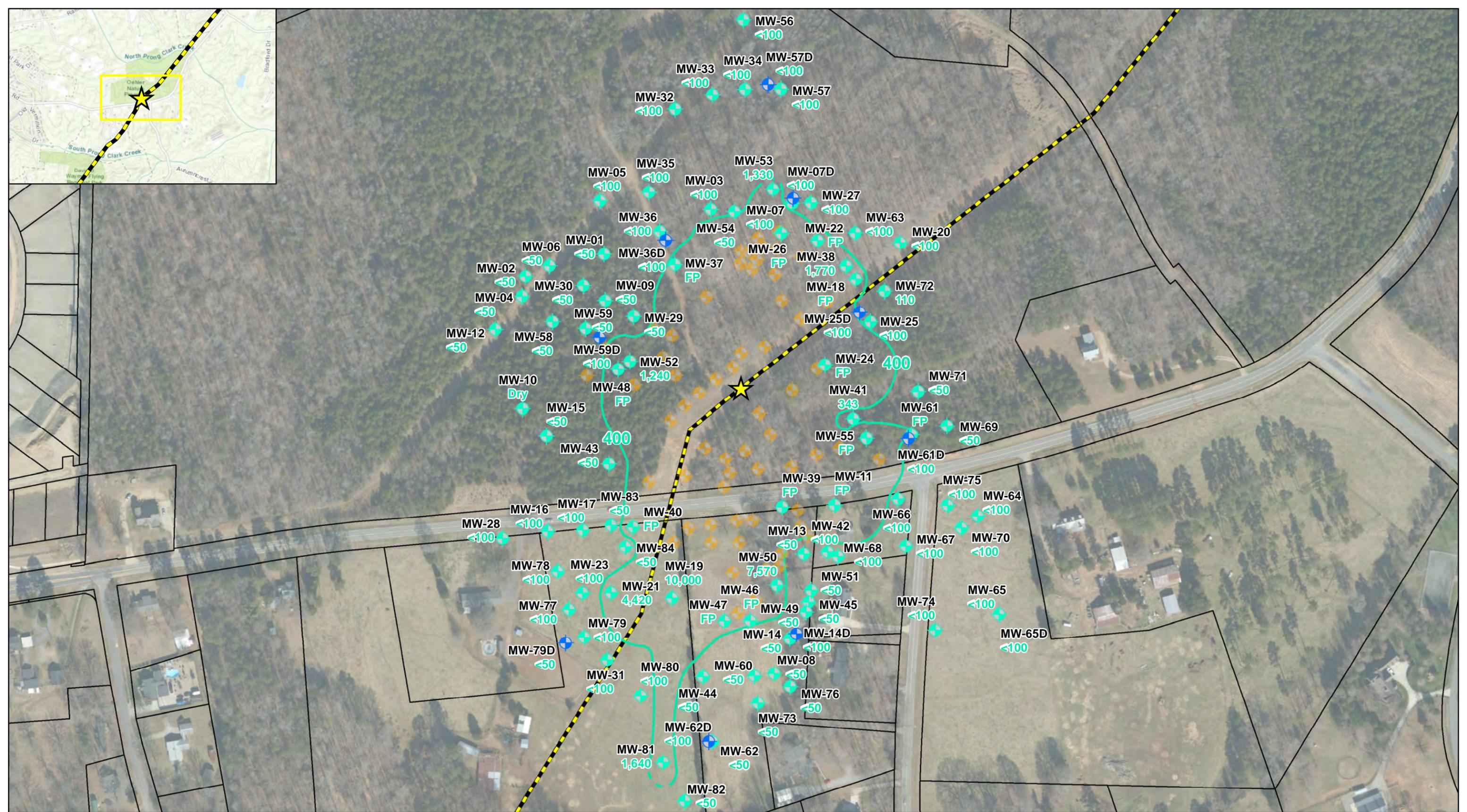
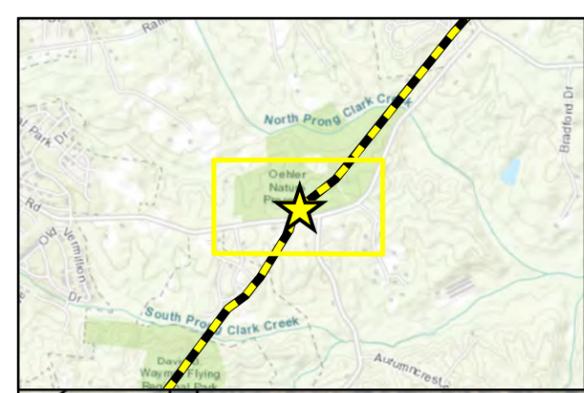
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	Project No.:	CPC20126

**Total Xylenes Isoconcentration Map**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      200      400      600  
 Feet

Release Site Pipeline -500- Total Xylenes Isocontour (Dashed where Inferred)	<1.5 Constituent Not Detected Above Laboratory Practical Quantitation Limit 32.8 Total Xylenes Concentration (µg/L) FP = Free Product µg/L = Micrograms per Liter	Recovery Well Monitoring Well Monitoring Well (Bedrock) NCDEQ 2L Standard for Total Xylenes is 500 µg/L
--	--	--

		FIGURE <h1 style="font-size: 2em;">14</h1>
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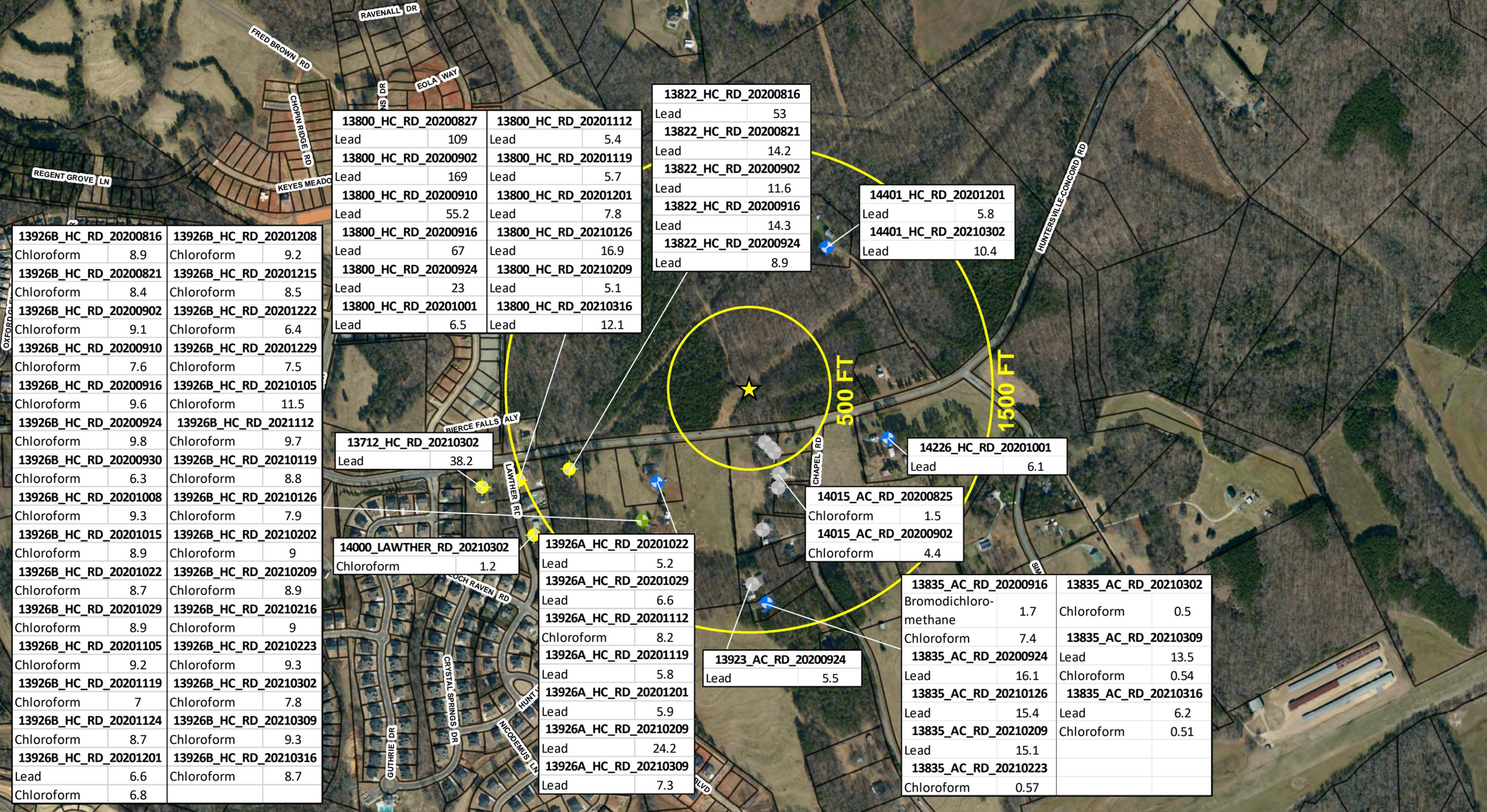
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	Project No.:	CPC20126

**C5-C8 Aliphatics Isoconcentration Map**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      200      400      600  
 Feet

<p>★ Release Site</p> <p>— Pipeline</p> <p>—400— C5-C8 Aliphatics Isocontour (Dashed where Inferred)</p>	<p>&lt;50 Constituent Not Detected Above Laboratory Practical Quantitation Limit</p> <p>343 C5-C8 Aliphatics Concentration (µg/L)</p> <p>FP = Free Product</p> <p>µg/L = Micrograms per Liter</p>	<p>○ Recovery Well</p> <p>● Monitoring Well</p> <p>● Monitoring Well (Bedrock)</p> <p>NCDEQ 2L Standard for C5-C8 Aliphatics is 400 µg/L</p>
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		FIGURE <h1 style="margin: 0;">15</h1>
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<b>13926B_HC_RD_20200816</b>	<b>13926B_HC_RD_20201208</b>
Chloroform 8.9	Chloroform 9.2
<b>13926B_HC_RD_20200821</b>	<b>13926B_HC_RD_20201215</b>
Chloroform 8.4	Chloroform 8.5
<b>13926B_HC_RD_20200902</b>	<b>13926B_HC_RD_20201222</b>
Chloroform 9.1	Chloroform 6.4
<b>13926B_HC_RD_20200910</b>	<b>13926B_HC_RD_20201229</b>
Chloroform 7.6	Chloroform 7.5
<b>13926B_HC_RD_20200916</b>	<b>13926B_HC_RD_20210105</b>
Chloroform 9.6	Chloroform 11.5
<b>13926B_HC_RD_20200924</b>	<b>13926B_HC_RD_2021112</b>
Chloroform 9.8	Chloroform 9.7
<b>13926B_HC_RD_20200930</b>	<b>13926B_HC_RD_20210119</b>
Chloroform 6.3	Chloroform 8.8
<b>13926B_HC_RD_20201008</b>	<b>13926B_HC_RD_20210126</b>
Chloroform 9.3	Chloroform 7.9
<b>13926B_HC_RD_20201015</b>	<b>13926B_HC_RD_20210202</b>
Chloroform 8.9	Chloroform 9
<b>13926B_HC_RD_20201022</b>	<b>13926B_HC_RD_20210209</b>
Chloroform 8.7	Chloroform 8.9
<b>13926B_HC_RD_20201029</b>	<b>13926B_HC_RD_20210216</b>
Chloroform 8.9	Chloroform 9
<b>13926B_HC_RD_20201105</b>	<b>13926B_HC_RD_20210223</b>
Chloroform 9.2	Chloroform 9.3
<b>13926B_HC_RD_20201119</b>	<b>13926B_HC_RD_20210302</b>
Chloroform 7	Chloroform 7.8
<b>13926B_HC_RD_20201124</b>	<b>13926B_HC_RD_20210309</b>
Chloroform 8.7	Chloroform 9.3
<b>13926B_HC_RD_20201201</b>	<b>13926B_HC_RD_20210316</b>
Lead 6.6	Chloroform 8.7
Chloroform 6.8	

<b>13800_HC_RD_20200827</b>	<b>13800_HC_RD_20201112</b>
Lead 109	Lead 5.4
<b>13800_HC_RD_20200902</b>	<b>13800_HC_RD_20201119</b>
Lead 169	Lead 5.7
<b>13800_HC_RD_20200910</b>	<b>13800_HC_RD_20201201</b>
Lead 55.2	Lead 7.8
<b>13800_HC_RD_20200916</b>	<b>13800_HC_RD_20210126</b>
Lead 67	Lead 16.9
<b>13800_HC_RD_20200924</b>	<b>13800_HC_RD_20210209</b>
Lead 23	Lead 5.1
<b>13800_HC_RD_20201001</b>	<b>13800_HC_RD_20210316</b>
Lead 6.5	Lead 12.1

<b>13822_HC_RD_20200816</b>	Lead 53
<b>13822_HC_RD_20200821</b>	Lead 14.2
<b>13822_HC_RD_20200902</b>	Lead 11.6
<b>13822_HC_RD_20200916</b>	Lead 14.3
<b>13822_HC_RD_20200924</b>	Lead 8.9

<b>14401_HC_RD_20201201</b>	Lead 5.8
<b>14401_HC_RD_20210302</b>	Lead 10.4

<b>13712_HC_RD_20210302</b>	Lead 38.2
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<b>14000_LAWTHER_RD_20210302</b>	Chloroform 1.2
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<b>13926A_HC_RD_20201022</b>	Lead 5.2
<b>13926A_HC_RD_20201029</b>	Lead 6.6
<b>13926A_HC_RD_20201112</b>	Chloroform 8.2
<b>13926A_HC_RD_20201119</b>	Lead 5.8
<b>13926A_HC_RD_20201201</b>	Lead 5.9
<b>13926A_HC_RD_20210209</b>	Lead 24.2
<b>13926A_HC_RD_20210309</b>	Lead 7.3

<b>13923_AC_RD_20200924</b>	Lead 5.5
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<b>14015_AC_RD_20200825</b>	Chloroform 1.5
<b>14015_AC_RD_20200902</b>	Chloroform 4.4

<b>14226_HC_RD_20201001</b>	Lead 6.1
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<b>13835_AC_RD_20200916</b>	Bromodichloro-methane 1.7	<b>13835_AC_RD_20210302</b>	Chloroform 0.5
<b>13835_AC_RD_20200924</b>	Chloroform 7.4	<b>13835_AC_RD_20210309</b>	Lead 13.5
<b>13835_AC_RD_20201026</b>	Lead 16.1	<b>13835_AC_RD_20210316</b>	Chloroform 0.54
<b>13835_AC_RD_20210209</b>	Lead 15.4	<b>13835_AC_RD_20210316</b>	Lead 6.2
<b>13835_AC_RD_20210223</b>	Lead 15.1		Chloroform 0.51
<b>13835_AC_RD_20210223</b>	Chloroform 0.57		

Data Sources: Mecklenburg County (Parcels, Streets, Zoning, Private Wells)

Information depicted is subject to change based on future site activities.

	Checked By:	--
	Created By:	BM
	Scale:	1" = 550 FT
	Created On:	03/29/2021; 15:55
	Project No.:	CPC20126

**Water Supply Well Sampling Results**  
 (Detections Only)  
 2020-L1-SR2448  
 Colonial Pipeline Company  
 Huntersville, North Carolina

**Sampled Water Supply Wells:**

- Release Site
- Non-Potable Use Well
- Inactive Use Well
- Potable Use Well
- Abandoned Well
- Parcel Boundaries

**Notes:**  
 Only wells within 1,500 feet of release site are shown;  
 Well locations are approximated and sampling commenced once access was allowed.

FIGURE 16



Data Sources: Mecklenburg County GIS (Streets), US Geological Survey (Elevation Products)

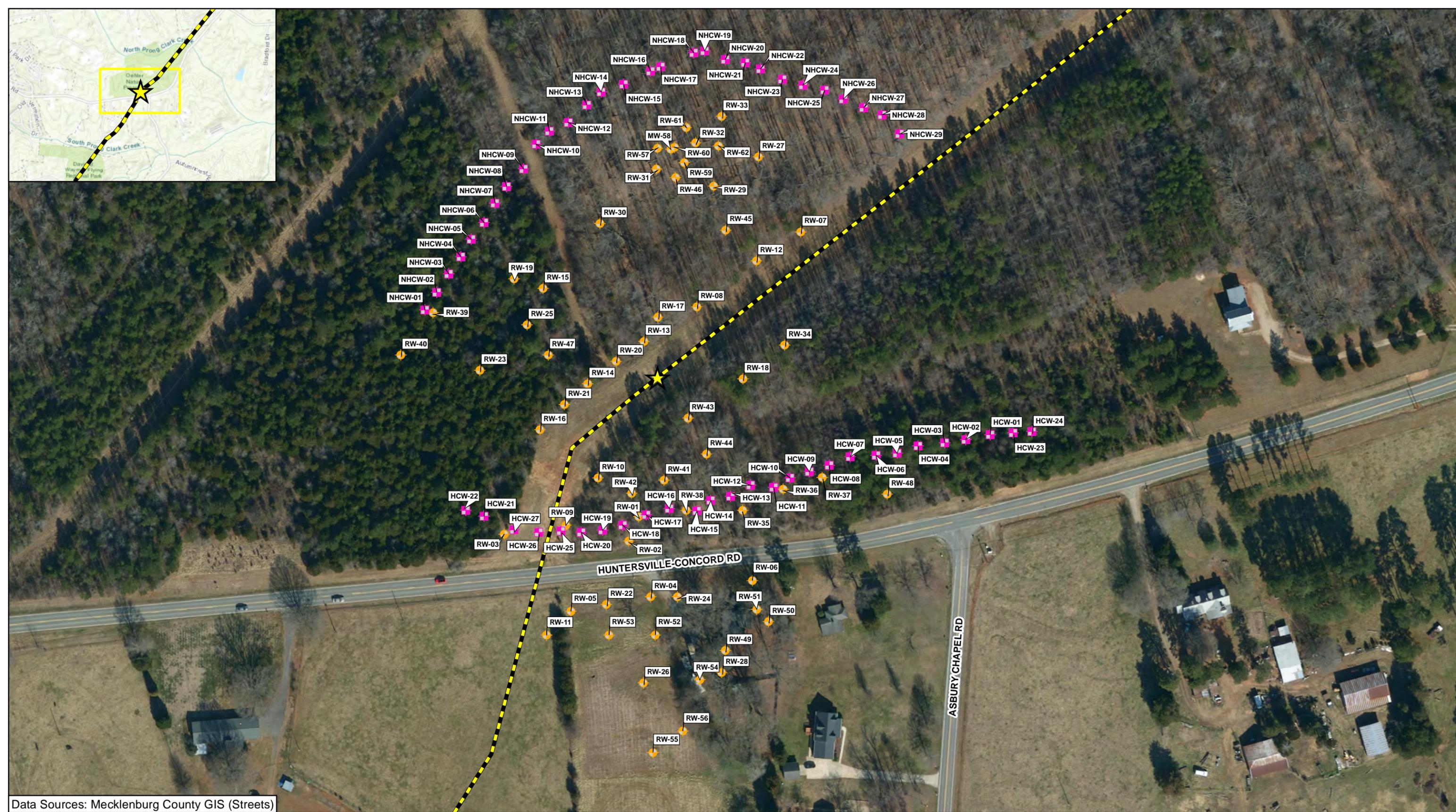
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	Project No.:	CPC20126

**Air Sparge System Layout**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      100      200      300  
Feet

★ Release Site	■ Air Sparge Well	○ Soil Vapor Monitoring Point
- - - Pipeline	▲ Soil Vapor Extraction Well	■ AreaRae Monitoring Station





Data Sources: Mecklenburg County GIS (Streets)

	Checked By:	--
	Created By:	BM
	Scale:	1" = 120 FT
	Date/Time:	03/24/2021; 14:40
	Project No.:	CPC20126

**Recovery and Hydraulic Control Well**  
**System Layout**  
**Colonial Pipeline Company**  
**2020-L1-SR2448**  
**Huntersville, North Carolina**

0      120      240      360  
Feet

Release Site	Recovery Well
Pipeline	Hydraulic Control Well



## TABLES





**Table 1  
Summary of Pipeline Excavation Soil Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report	Sample ID	Sample Date	Volatile Organic Compounds (EPA 8260D) (mg/kg)																							MADEP VPH (mg/kg)					
			1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (MEK)	Acetone	Benzene	Chlorobenzene	Chloroform	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl-tert-butyl ether	Methylene Chloride	Naphthalene	Styrene	Tetrachloroethene	Toluene	o-Xylene	Xylene (Total)	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	Aliphatic (C05-C08)	Aliphatic (C09-C12)	Aromatic (C09-C10), Unadjusted	Total VPH
<b>Soil-to-Water MSCCs</b>			<b>0.0032</b>	<b>0.0019</b>	<b>NE</b>	<b>6.6</b>	<b>6.6</b>	<b>16</b>	<b>24</b>	<b>0.0072</b>	<b>0.44</b>	<b>0.34</b>	<b>0.32</b>	<b>8.0</b>	<b>1.3</b>	<b>0.085</b>	<b>0.023</b>	<b>0.2</b>	<b>0.9</b>	<b>0.0050</b>	<b>6.0</b>	<b>6.0</b>	<b>6.0</b>	<b>2.4</b>	<b>1.4</b>	<b>NE</b>	<b>2.2</b>	<b>68</b>	<b>540</b>	<b>31</b>	<b>NE</b>
<b>Residential MSCCs</b>			<b>11.6</b>	<b>7.29</b>	<b>NE</b>	<b>156</b>	<b>156</b>	<b>9,380</b>	<b>14,000</b>	<b>12</b>	<b>312</b>	<b>21</b>	<b>NE</b>	<b>60.3</b>	<b>1,560</b>	<b>156</b>	<b>93.8</b>	<b>5.5</b>	<b>3,120</b>	<b>93.8</b>	<b>3,120</b>	<b>3,120</b>	<b>3,120</b>	<b>782</b>	<b>1,560</b>	<b>NE</b>	<b>1,560</b>	<b>625</b>	<b>1,560</b>	<b>469</b>	<b>NE</b>
<b>Industrial / Commercial MSCCs</b>			<b>57.3</b>	<b>35.9</b>	<b>NE</b>	<b>2,330</b>	<b>2,330</b>	<b>140,000</b>	<b>210,000</b>	<b>59.4</b>	<b>4,670</b>	<b>105</b>	<b>2,330</b>	<b>297</b>	<b>23,330</b>	<b>1,810</b>	<b>1,400</b>	<b>27</b>	<b>46,700</b>	<b>1,400</b>	<b>46,700</b>	<b>46,700</b>	<b>46,700</b>	<b>11,600</b>	<b>23,300</b>	<b>NE</b>	<b>23,300</b>	<b>9,340</b>	<b>23,300</b>	<b>7,000</b>	<b>NE</b>
92516902	L2-50-B	01/14/2021	<0.292	<0.292	<b>86.3</b>	<b>317</b>	<b>80.0</b>	<11.7	<5.84	<b>27.7</b>	<0.292	<0.292	<b>1.74</b>	<b>236</b>	<b>19.3</b>	<0.117	<2.92	<b>32.0</b>	<1.46	<0.292	<b>476</b>	NA	<b>1,400</b>	<b>12.8</b>	<b>60.9</b>	<b>3.14</b>	<b>5.08</b>	<b>2,520</b>	<b>2,610</b>	<b>744</b>	<b>5880</b>
92516902	L2-50-E	01/14/2021	<0.756	<0.756	<b>104</b>	<b>352</b>	<b>93.7</b>	<30.2	<15.1	<b>10.2</b>	<0.756	<0.756	<b>0.464</b>	<b>198</b>	<b>18.6</b>	<0.302	<7.56	<b>39.4</b>	<3.78	<0.756	<b>375</b>	NA	<b>1,060</b>	<b>14.4</b>	<b>65.0</b>	<b>3.78</b>	<b>6.27</b>	<b>2,540</b>	<b>4,570</b>	<b>1,860</b>	<b>8970</b>
92516902	L2-50-W	01/14/2021	<0.00392	<0.00392	<b>0.0867</b>	<b>0.227</b>	<b>0.0538</b>	<0.157	<0.0784	<b>0.296</b>	<0.00392	<0.00392	<b>0.0262</b>	<b>0.155</b>	<b>0.00915</b>	<b>0.0246</b>	<0.0392	<b>0.0326</b>	<0.0196	<0.00392	<b>1.12</b>	NA	<b>0.956</b>	<0.0196	<b>0.0246</b>	<0.00784	<0.0196	<b>25.3</b>	<15.5	<15.5	<b>25.3</b>
92516902	L2-75-B	01/14/2021	<0.320	<0.320	<b>60.3</b>	<b>247</b>	<b>59.7</b>	<12.8	<6.40	<b>36.3</b>	<0.320	<0.320	<b>10.9</b>	<b>239</b>	<b>12.2</b>	<b>0.850</b>	<3.20	<b>40.5</b>	<1.60	<0.320	<b>503</b>	NA	<b>1,360</b>	<b>9.64</b>	<b>41.9</b>	<b>1.89</b>	<b>3.36</b>	<b>4,760</b>	<b>13,000</b>	<795	<b>NA</b>
92516902	L2-75-E	01/14/2021	<0.00475	<0.00475	<b>0.0863</b>	<b>0.298</b>	<b>0.0827</b>	<b>11.1</b>	<0.0950	<b>0.0804</b>	<0.00475	<0.00475	<b>0.0448</b>	<b>0.262</b>	<b>0.0142</b>	<b>0.00994</b>	<0.0475	<b>0.0874</b>	<0.0238	<0.00475	<b>0.827</b>	NA	<b>1.59</b>	<0.0238	<b>0.0515</b>	<0.00950	<0.0238	<b>74.5</b>	<b>134</b>	<b>50.0</b>	<b>258</b>
92516902	L2-75-W	01/14/2021	<0.0676	<0.0676	<b>60.7</b>	<b>218</b>	<b>56.8</b>	<2.70	<1.35	<b>3.65</b>	<0.0676	<0.0676	<b>0.343</b>	<b>110</b>	<b>13.4</b>	<b>0.0407</b>	<0.676	<b>27.4</b>	<0.338	<0.0676	<b>92.8</b>	NA	<b>696</b>	<b>13.8</b>	<b>34.1</b>	<b>3.04</b>	<b>4.64</b>	<b>980</b>	<b>1,880</b>	<b>773</b>	<b>3630</b>
92516902	L2-North Wall	01/14/2021	<0.00379	<0.00379	<b>0.0428</b>	<b>0.0872</b>	<b>0.0290</b>	<0.152	<0.0758	<b>0.0194</b>	<0.00379	<0.00379	<b>0.00282</b>	<b>0.0402</b>	<0.00379	<b>0.00170</b>	<0.0379	<b>0.0367</b>	<0.0190	<0.00379	<b>0.177</b>	NA	<b>0.328</b>	<0.0190	<b>0.00819</b>	<0.00758	<0.0190	<7.73	<7.73	<7.73	<b>9.31</b>

**Notes:**  
 Only detected constituents are shown  
 MSCC - Maximum Soil Contaminant Concentrations  
 "<" = Indicates compound was not detected above laboratory reporting limit  
 NA - Not Analyzed  
 NE - Not Established  
 J - Result is an estimated value below the laboratory reporting limit  
 Volatile Organic Compounds analyzed by EPA Method 8260D  
 MADEP - Massachusetts Department of Environmental Protection; as required by North Carolina Department of Environmental Quality  
 VPH - Volatile Petroleum Hydrocarbon  
 Bold values indicate compound was detected above laboratory reporting limit  
 Shaded values indicate compound exceeded an MSCC  
 All units are milligram per kilogram (mg/kg)





**Table 2  
Summary of Delineation Soil Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report	Sample ID	Well ID	Sample Date	MADEP VPH (mg/kg)				Volatile Organic Compounds (EPA 8260D) (µg/kg)																			
				Aliphatic (C05-C08)	Aliphatic (C09-C12)	Aromatic (C09-C10), Unadjusted	Total VPH	Benzene	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene Chloride	4-Methyl-2-pentanone (MIBK)	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	m&p-Xylene	o-Xylene	
Soil-to-Water MSCCs				68	540	31	NE	7.2	16,000	2,400	2,200	320	8,000	1,300	NE	23	420	85	200	1,400	6,000	6,600	6,600	6,000	NE	NE	
Residential MSCCs				625	1,560	469	NE	12,000	9,380,000	782,000	1,560,000	NE	60,300	1,560,000	NE	93,800	1,250,000	156,000	5,500	1,560,000	3,120,000	156,000	156,000	3,120,000	NE	NE	
Industrial / Commercial MSCCs				9,340	23,300	7,000	NE	59,400	140,000,000	11,600,000	23,300,000	2,330,000	297,000	23,330,000	NE	1,400,000	18,600,000	1,810,000	27,000	23,300,000	46,700,000	2,330,000	2,330,000	46,700,000	NE	NE	
92497664	RW-36 (22.5-25)	RW-36	09/27/2020	<6.78	<6.78	2.39	2.39	<7.3	<146	<7.3	<7.3	<7.3	<7.3	<7.3	<29.1	<72.8	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	
92497664	RW-37 (25-30)	RW-37	09/27/2020	<6.79	<6.79	2.35	2.35	<6.4	<129	<6.4	<6.4	<6.4	<6.4	<6.4	<25.7	<64.3	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	
92498670	RW-40@25-27.5	RW-40	10/03/2020	NA	NA	NA	NA	<5.8	55.1J	<5.8	<5.8	<5.8	<5.8	<5.8	47.2	<57.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	
92509149	PMW-11@ (46'-48')	RW-48	11/30/2020	113	284	321	397	32.2	<130	465	<6.5	<6.5	705	157	<6.5	<26	167	<6.5	1,680	662	798	5,990	1,720	3,930	2,560	1,380	
92518156	RW-51(45-47)	RW-51	01/18/2021	1,290	1,280	589	3,160	7,260	<10,700	6,670	2,510	513	57,700	6,650	1,440	<2,690	<2,690	<107	18,500	25,400	136,000	133,000	43,000	310,000	NA	NA	
92518156	RW-52(30-32)	RW-52	01/18/2021	2,640	2,360	709	5,720	60,100	<31,500	4,580	<3,930	1,700	140,000	10,000	<1,570	<7,870	<7,870	<315	38,200	35,700	681,000	186,000	50,200	703,000	NA	NA	
92520906	HCW-24	HCW-24	02/06/2021	7.11	<5.64	<5.64	7.11	<1.13	<113	<14.1	<14.1	<1.13	<2.83	<2.83	<5.66	<28.3	<28.3	<1.13	<14.1	<5.66	<5.66	<5.66	<5.66	<7.36	NA	NA	
<b>Quality Control Data</b>																											
92492881	TB-1	Trip Blank	08/27/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92493060	TB-1	Trip Blank	08/28/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92493075	TB-1	Trip Blank	08/28/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92493224	TB-1	Trip Blank	08/31/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92493403	TB-1	Trip Blank	08/31/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92493643	TB-1	Trip Blank	08/31/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92493861	TB-1	Trip Blank	09/02/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92494208	TB-1	Trip Blank	09/04/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92494924	TB-20200909-1	Trip Blank	09/09/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92494609	TB-20200909-1	Trip Blank	09/09/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92494925	TB-20200909-2	Trip Blank	09/09/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	
92494609	TB-20200909-2	Trip Blank	09/09/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1	

**Notes:**  
NA - Not Analyzed  
NE - Not Established  
All VPH analysis units reported in milligrams per kilogram (mg/kg); all VOC analysis units reported in micrograms per kilogram (µg/kg)  
Only detected constituents are shown  
MSCC - Maximum Soil Contaminant Concentrations  
"<" - Indicates compound was not detected above laboratory reporting limit  
Volatile Organic Compounds analyzed by EPA Method 8260D  
MADEP - Massachusetts Department of Environmental Protection; as required by North Carolina Department of Environmental Quality  
VPH - Volatile Petroleum Hydrocarbon  
Bold values indicate compound was detected above laboratory reporting limit  
Shaded values indicate compound exceeded an MSCC  
Methylene Chloride is likely a laboratory artifact

**Table 3  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
<b>Shallow Monitoring Wells</b>						
MW-01*	709.60	9/1/2020	ND	25.05	N/A	684.55
MW-01*	709.60	9/3/2020	ND	25.82	N/A	683.78
MW-01*	709.60	9/5/2020	ND	25.94	N/A	683.66
MW-01	711.86	9/14/2020	ND	28.20	N/A	683.66
MW-01	711.86	9/18/2020	ND	28.20	N/A	683.66
MW-01	711.86	9/28/2020	ND	28.10	N/A	683.76
MW-01	711.86	10/3/2020	ND	28.09	N/A	683.77
MW-01	711.86	10/19/2020	ND	27.88	N/A	683.98
MW-01	711.86	10/26/2020	ND	27.74	N/A	684.12
MW-01	711.86	11/9/2020	ND	28.74	N/A	683.12
MW-01	711.86	11/18/2020	ND	27.49	N/A	684.37
MW-01	711.86	11/23/2020	ND	27.44	N/A	684.42
MW-01	711.86	12/7/2020	ND	27.12	N/A	684.74
MW-01	711.86	12/21/2020	ND	26.95	N/A	684.91
MW-01	711.86	12/26/2020	ND	26.94	N/A	684.92
MW-01	711.86	1/10/2021	ND	26.64	N/A	685.22
MW-01	711.86	1/19/2021	ND	26.55	N/A	685.31
MW-01	711.86	1/25/2021	ND	26.34	N/A	685.52
MW-01	711.86	2/1/2021	ND	26.23	N/A	685.63
MW-01	711.86	2/8/2021	ND	26.31	N/A	685.55
MW-01	711.86	2/16/2021	ND	25.99	N/A	685.87
MW-01	711.86	2/22/2021	ND	25.76	N/A	686.10
MW-01	711.86	3/4/2021	ND	25.52	N/A	686.34
MW-01	711.86	3/8/2021	ND	25.64	N/A	686.22
MW-01	711.86	3/15/2021	ND	25.49	N/A	686.37

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-02*	710.96	9/1/2020	ND	26.65	N/A	684.31
MW-02*	710.96	9/3/2020	ND	27.59	N/A	683.37
MW-02*	710.96	9/5/2020	ND	28.00	N/A	682.96
MW-02	712.53	9/14/2020	ND	29.57	N/A	682.96
MW-02	712.53	9/18/2020	ND	29.56	N/A	682.97
MW-02	712.53	9/28/2020	ND	29.51	N/A	683.02
MW-02	712.53	10/3/2020	ND	30.60	N/A	681.93
MW-02	712.53	10/19/2020	ND	29.41	N/A	683.12
MW-02	712.53	10/26/2020	ND	29.30	N/A	683.23
MW-02	712.53	11/9/2020	ND	29.07	N/A	683.46
MW-02	712.53	11/18/2020	ND	29.05	N/A	683.48
MW-02	712.53	11/23/2020	ND	28.98	N/A	683.55
MW-02	712.53	12/7/2020	ND	28.59	N/A	683.94
MW-02	712.53	12/21/2020	ND	28.44	N/A	684.09
MW-02	712.53	12/26/2020	ND	28.74	N/A	683.79
MW-02	712.53	1/10/2021	ND	28.54	N/A	683.99
MW-02	712.53	1/19/2021	ND	28.39	N/A	684.14
MW-02	712.53	1/25/2021	ND	28.09	N/A	684.44
MW-02	712.53	2/1/2021	ND	27.74	N/A	684.79
MW-02	712.53	2/8/2021	ND	28.28	N/A	684.25
MW-02	712.53	2/16/2021	ND	27.65	N/A	684.88
MW-02	712.53	2/22/2021	ND	27.53	N/A	685.00
MW-02	712.53	3/4/2021	ND	27.52	N/A	685.01
MW-02	712.53	3/8/2021	ND	27.76	N/A	684.77
MW-02	712.53	3/15/2021	ND	27.58	N/A	684.95

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-03	703.64	9/1/2020	ND	19.93	N/A	683.71
MW-03	703.64	9/3/2020	ND	22.74	N/A	680.90
MW-03	703.64	9/5/2020	ND	22.84	N/A	680.80
MW-03	703.64	9/14/2020	ND	22.78	N/A	680.86
MW-03	703.64	9/18/2020	ND	22.80	N/A	680.84
MW-03	703.64	9/28/2020	ND	22.54	N/A	681.10
MW-03	703.64	10/3/2020	ND	22.57	N/A	681.07
MW-03	703.64	10/19/2020	ND	21.88	N/A	681.76
MW-03	703.64	10/26/2020	ND	21.70	N/A	681.94
MW-03	703.64	11/9/2020	ND	21.44	N/A	682.20
MW-03	703.64	11/18/2020	ND	20.87	N/A	682.77
MW-03	703.64	11/23/2020	ND	20.76	N/A	682.88
MW-03	703.64	12/7/2020	ND	20.39	N/A	683.25
MW-03	703.64	12/21/2020	ND	19.90	N/A	683.74
MW-03	703.64	12/26/2020	ND	19.71	N/A	683.93
MW-03	703.64	1/10/2021	ND	19.54	N/A	684.10
MW-03	703.64	1/19/2021	ND	19.47	N/A	684.17
MW-03	703.64	1/25/2021	ND	19.43	N/A	684.21
MW-03	703.64	2/1/2021	ND	18.56	N/A	685.08
MW-03	703.64	2/8/2021	ND	18.69	N/A	684.95
MW-03	703.64	2/16/2021	ND	17.45	N/A	686.19
MW-03	703.64	2/22/2021	ND	16.89	N/A	686.75
MW-03	703.64	3/4/2021	ND	17.16	N/A	686.48
MW-03	703.64	3/8/2021	ND	17.67	N/A	685.97
MW-03	703.64	3/15/2021	ND	17.90	N/A	685.74

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-04*	712.05	9/1/2020	ND	28.30	N/A	683.75
MW-04*	712.05	9/3/2020	ND	28.19	N/A	683.86
MW-04*	712.05	9/5/2020	ND	28.32	N/A	683.73
MW-04	715.04	9/14/2020	ND	31.32	N/A	683.72
MW-04	715.04	9/18/2020	ND	31.31	N/A	683.73
MW-04	715.04	9/28/2020	ND	31.23	N/A	683.81
MW-04	715.04	10/3/2020	ND	31.26	N/A	683.78
MW-04	715.04	10/19/2020	ND	30.93	N/A	684.11
MW-04	715.04	10/26/2020	ND	30.78	N/A	684.26
MW-04	715.04	11/9/2020	ND	30.50	N/A	684.54
MW-04	715.04	11/18/2020	ND	30.44	N/A	684.60
MW-04	715.04	11/23/2020	ND	30.32	N/A	684.72
MW-04	715.04	12/7/2020	ND	29.97	N/A	685.07
MW-04	715.04	12/21/2020	ND	29.78	N/A	685.26
MW-04	715.04	12/26/2020	ND	30.04	N/A	685.00
MW-04	715.04	1/10/2021	ND	29.86	N/A	685.18
MW-04	715.04	1/19/2021	ND	29.76	N/A	685.28
MW-04	715.04	1/25/2021	ND	23.46	N/A	691.58
MW-04	715.04	2/1/2021	ND	29.16	N/A	685.88
MW-04	715.04	2/8/2021	ND	29.61	N/A	685.43
MW-04	715.04	2/16/2021	ND	29.05	N/A	685.99
MW-04	715.04	2/22/2021	ND	28.90	N/A	686.14
MW-04	715.04	3/4/2021	ND	28.87	N/A	686.17
MW-04	715.04	3/8/2021	ND	29.13	N/A	685.91
MW-04	715.04	3/15/2021	ND	28.98	N/A	686.06

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-05*	705.61	9/1/2020	ND	24.19	N/A	681.42
MW-05*	705.61	9/3/2020	ND	25.22	N/A	680.39
MW-05*	705.61	9/5/2020	ND	26.38	N/A	679.23
MW-05*	705.61	9/6/2020	ND	27.38	N/A	678.23
MW-05	707.30	9/14/2020	ND	27.04	N/A	680.26
MW-05	707.30	9/18/2020	ND	27.03	N/A	680.27
MW-05	707.30	9/28/2020	ND	26.87	N/A	680.43
MW-05	707.30	10/3/2020	ND	26.88	N/A	680.42
MW-05	707.30	10/19/2020	ND	26.49	N/A	680.81
MW-05	707.30	10/26/2020	ND	26.34	N/A	680.96
MW-05	707.30	10/28/2020	ND	28.34	N/A	678.96
MW-05	707.30	11/9/2020	ND	26.06	N/A	681.24
MW-05	707.30	11/18/2020	ND	25.93	N/A	681.37
MW-05	707.30	11/23/2020	ND	25.80	N/A	681.50
MW-05	707.30	12/7/2020	ND	25.39	N/A	681.91
MW-05	707.30	12/21/2020	ND	25.14	N/A	682.16
MW-05	707.30	12/26/2020	ND	25.17	N/A	682.13
MW-05	707.30	1/10/2021	ND	24.89	N/A	682.41
MW-05	707.30	1/19/2021	ND	24.72	N/A	682.58
MW-05	707.30	1/25/2021	ND	24.43	N/A	682.87
MW-05	707.30	2/1/2021	ND	24.25	N/A	683.05
MW-05	707.30	2/8/2021	ND	24.49	N/A	682.81
MW-05	707.30	2/16/2021	ND	23.96	N/A	683.34
MW-05	707.30	2/22/2021	ND	23.66	N/A	683.64
MW-05	707.30	3/4/2021	ND	23.41	N/A	683.89
MW-05	707.30	3/8/2021	ND	23.64	N/A	683.66
MW-05	707.30	3/15/2021	ND	23.46	N/A	683.84

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-06*	703.81	9/1/2020	ND	20.70	N/A	683.11
MW-06*	703.81	9/3/2020	ND	20.92	N/A	682.89
MW-06	706.34	9/14/2020	ND	23.56	N/A	682.78
MW-06	706.34	9/18/2020	ND	23.65	N/A	682.69
MW-06	706.34	9/28/2020	ND	23.47	N/A	682.87
MW-06	706.34	10/3/2020	ND	23.51	N/A	682.83
MW-06	706.34	10/19/2020	ND	23.23	N/A	683.11
MW-06	706.34	10/26/2020	ND	23.12	N/A	683.22
MW-06	706.34	11/9/2020	ND	22.91	N/A	683.43
MW-06	706.34	11/18/2020	ND	Dry	N/A	Dry
MW-06	706.34	11/23/2020	ND	22.79	N/A	683.55
MW-06	706.34	12/7/2020	ND	22.36	N/A	683.98
MW-06	706.34	12/21/2020	ND	22.18	N/A	684.16
MW-06	706.34	12/26/2020	ND	22.34	N/A	684.00
MW-06	706.34	1/10/2021	ND	22.15	N/A	684.19
MW-06	706.34	1/19/2021	ND	21.98	N/A	684.36
MW-06	706.34	1/25/2021	ND	21.68	N/A	684.66
MW-06	706.34	2/1/2021	ND	21.36	N/A	684.98
MW-06	706.34	2/8/2021	ND	21.83	N/A	684.51
MW-06	706.34	2/16/2021	ND	21.24	N/A	685.10
MW-06	706.34	2/22/2021	ND	20.99	N/A	685.35
MW-06	706.34	3/4/2021	ND	20.91	N/A	685.43
MW-06	706.34	3/8/2021	ND	21.11	N/A	685.23
MW-06	706.34	3/15/2021	ND	20.93	N/A	685.41

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MW-07*	709.46	9/1/2020	ND	26.67	N/A	682.79
MW-07*	709.46	9/3/2020	ND	26.53	N/A	682.93
MW-07*	709.46	9/5/2020	ND	25.60	N/A	683.86
MW-07	712.36	9/14/2020	ND	29.36	N/A	683.00
MW-07	712.36	9/18/2020	ND	29.31	N/A	683.05
MW-07	712.36	9/28/2020	ND	29.24	N/A	683.12
MW-07	712.36	10/3/2020	ND	29.32	N/A	683.04
MW-07	712.36	10/5/2020	ND	31.32	N/A	681.04
MW-07	712.36	10/19/2020	ND	29.28	N/A	683.08
MW-07	712.36	10/26/2020	ND	29.26	N/A	683.10
MW-07	712.36	11/9/2020	ND	29.19	N/A	683.17
MW-07	712.36	11/18/2020	ND	29.20	N/A	683.16
MW-07	712.36	11/23/2020	ND	29.16	N/A	683.20
MW-07	712.36	12/7/2020	ND	29.98	N/A	682.38
MW-07	712.36	12/21/2020	ND	29.04	N/A	683.32
MW-07	712.36	12/26/2020	ND	29.02	N/A	683.34
MW-07	712.36	1/10/2021	ND	29.07	N/A	683.29
MW-07	712.36	1/19/2021	ND	29.62	N/A	682.74
MW-07	712.36	1/25/2021	ND	29.91	N/A	682.45
MW-07	712.36	2/1/2021	ND	30.05	N/A	682.31
MW-07	712.36	2/8/2021	ND	30.19	N/A	682.17
MW-07	712.36	2/16/2021	ND	29.86	N/A	682.50
MW-07	712.36	2/22/2021	ND	29.46	N/A	682.90
MW-07	712.36	3/4/2021	ND	29.23	N/A	683.13
MW-07	712.36	3/8/2021	ND	29.37	N/A	682.99
MW-07	712.36	3/15/2021	ND	29.39	N/A	682.97

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-08	724.93	9/1/2020	ND	31.50	N/A	693.43
MW-08	724.93	9/3/2020	ND	31.64	N/A	693.29
MW-08	724.93	9/14/2020	ND	31.77	N/A	693.16
MW-08	724.93	9/18/2020	ND	21.78	N/A	703.15
MW-08	724.93	9/28/2020	ND	31.83	N/A	693.10
MW-08	724.93	10/3/2020	ND	31.95	N/A	692.98
MW-08	724.93	10/19/2020	ND	31.87	N/A	693.06
MW-08	724.93	10/26/2020	ND	31.79	N/A	693.14
MW-08	724.93	11/9/2020	ND	31.73	N/A	693.20
MW-08	724.93	11/18/2020	ND	31.69	N/A	693.24
MW-08	724.93	11/23/2020	ND	31.49	N/A	693.44
MW-08	724.93	12/7/2020	ND	37.31	N/A	687.62
MW-08	724.93	12/21/2020	ND	31.25	N/A	693.68
MW-08	724.93	12/26/2020	ND	31.28	N/A	693.65
MW-08	724.93	1/10/2021	ND	31.06	N/A	693.87
MW-08	724.93	1/19/2021	ND	30.97	N/A	693.96
MW-08	724.93	1/25/2021	ND	30.75	N/A	694.18
MW-08	724.93	2/1/2021	ND	30.76	N/A	694.17
MW-08	724.93	2/8/2021	ND	30.83	N/A	694.10
MW-08	724.93	2/16/2021	ND	30.64	N/A	694.29
MW-08	724.93	2/22/2021	ND	30.33	N/A	694.60
MW-08	724.93	3/4/2021	ND	30.08	N/A	694.85
MW-08	724.93	3/8/2021	ND	30.12	N/A	694.81
MW-08	724.93	3/15/2021	ND	30.03	N/A	694.90

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-09	709.46*	9/1/2020	ND	26.02	N/A	683.44
MW-09	709.46*	9/3/2020	ND	26.64	N/A	682.82
MW-09	717.15	9/14/2020	ND	28.82	N/A	688.33
MW-09	717.15	9/18/2020	ND	28.84	N/A	688.31
MW-09	717.15	9/28/2020	ND	28.84	N/A	688.31
MW-09	717.15	10/3/2020	ND	28.93	N/A	688.22
MW-09	717.15	10/19/2020	ND	28.96	N/A	688.19
MW-09	717.15	10/26/2020	ND	28.93	N/A	688.22
MW-09	717.15	11/9/2020	ND	28.84	N/A	688.31
MW-09	717.15	11/18/2020	ND	28.87	N/A	688.28
MW-09	717.15	11/23/2020	ND	29.82	N/A	687.33
MW-09	717.15	12/7/2020	ND	28.62	N/A	688.53
MW-09	717.15	12/21/2020	ND	28.62	N/A	688.53
MW-09	717.15	12/26/2020	ND	28.62	N/A	688.53
MW-09	717.15	1/10/2021	ND	28.54	N/A	688.61
MW-09	717.15	1/19/2021	ND	28.55	N/A	688.60
MW-09	717.15	1/25/2021	ND	28.46	N/A	688.69
MW-09	717.15	2/1/2021	ND	28.44	N/A	688.71
MW-09	717.15	2/8/2021	ND	28.64	N/A	688.51
MW-09	717.15	2/16/2021	ND	28.40	N/A	688.75
MW-09	717.15	2/22/2021	ND	28.28	N/A	688.87
MW-09	717.15	3/4/2021	ND	28.12	N/A	689.03
MW-09	717.15	3/8/2021	ND	28.20	N/A	688.95
MW-09	717.15	3/15/2021	ND	28.07	N/A	689.08

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-10*	721.52	9/1/2020	ND	Dry	N/A	Dry
MW-10*	721.52	9/3/2020	ND	Dry	N/A	Dry
MW-10*	721.52	9/5/2020	ND	Dry	N/A	Dry
MW-10	722.91	9/14/2020	ND	Dry	N/A	Dry
MW-10	722.91	9/18/2020	ND	Dry	N/A	Dry
MW-10	722.91	9/28/2020	ND	Dry	N/A	Dry
MW-10	722.91	10/3/2020	ND	Dry	N/A	Dry
MW-10	722.91	10/4/2020	ND	Dry	N/A	Dry
MW-10	722.91	10/5/2020	ND	Dry	N/A	Dry
MW-10	722.91	10/26/2020	ND	Dry	N/A	Dry
MW-10	722.91	11/9/2020	ND	Dry	N/A	Dry
MW-10	722.91	11/18/2020	ND	Dry	N/A	Dry
MW-10	722.91	11/23/2020	ND	Dry	N/A	Dry
MW-10	722.91	12/7/2020	ND	Dry	N/A	Dry
MW-10	722.91	12/21/2020	ND	Dry	N/A	Dry
MW-10	722.91	12/26/2020	ND	Dry	N/A	Dry
MW-10	722.91	1/10/2021	ND	Dry	N/A	Dry
MW-10	722.91	1/19/2021	ND	Dry	N/A	Dry
MW-10	722.91	1/25/2021	ND	Dry	N/A	Dry
MW-10	722.91	2/1/2021	ND	Dry	N/A	Dry
MW-10	722.91	2/8/2021	ND	Dry	N/A	Dry
MW-10	722.91	2/16/2021	ND	Dry	N/A	Dry
MW-10	722.91	2/22/2021	ND	Dry	N/A	Dry
MW-10	722.91	3/4/2021	ND	Dry	N/A	Dry
MW-10	722.91	3/8/2021	ND	Dry	N/A	Dry
MW-10	722.91	3/15/2021	ND	Dry	N/A	Dry

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-11	739.65	9/1/2020	ND	40.90	N/A	698.75
MW-11	739.65	9/3/2020	ND	43.20	N/A	696.45
MW-11	739.65	9/14/2020	ND	45.24	N/A	694.41
MW-11	739.65	9/18/2020	ND	42.00	N/A	697.65
MW-11	739.65	9/28/2020	ND	42.03	N/A	697.62
MW-11	739.65	10/3/2020	ND	42.14	N/A	697.51
MW-11	739.65	10/19/2020	ND	42.24	N/A	697.41
MW-11	739.65	10/26/2020	ND	42.30	N/A	697.35
MW-11	739.65	11/9/2020	42.40	42.41	0.01	697.24
MW-11	739.65	11/18/2020	42.53	42.55	0.02	697.11
MW-11	739.65	11/24/2020	NM	NM	NM	NM
MW-11	739.65	12/7/2020	42.31	42.65	0.34	697.25
MW-11	739.65	12/21/2020	42.06	43.90	1.84	697.09
MW-11	739.65	12/26/2020	41.96	44.51	2.55	697.00
MW-11	739.65	1/10/2021	41.60	41.85	0.25	697.98
MW-11	739.65	1/19/2021	41.40	47.00	5.60	696.75
MW-11	739.65	1/25/2021	41.45	47.72	6.27	696.52
MW-11	739.65	2/1/2021	41.56	47.60	6.04	696.47
MW-11	739.65	2/8/2021	41.66	48.09	6.43	696.27
MW-11	739.65	2/16/2021	41.48	47.57	6.09	696.54
MW-11	739.65	2/22/2021	41.52	47.43	5.91	696.55
MW-11	739.65	3/4/2021	41.51	47.26	5.75	696.60
MW-11	739.65	3/8/2021	41.87	47.66	5.79	696.23
MW-11	739.65	3/11/2021	41.95	47.65	5.70	696.17
MW-11	739.65	3/15/2021	42.09	47.84	5.75	696.02

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-12	718.27	9/1/2020	ND	30.95	N/A	687.32
MW-12	718.27	9/3/2020	ND	32.18	N/A	686.09
MW-12	718.27	9/5/2020	ND	32.27	N/A	686.00
MW-12	718.27	9/14/2020	ND	33.77	N/A	684.50
MW-12	718.27	9/18/2020	ND	33.78	N/A	684.49
MW-12	718.27	9/28/2020	ND	33.71	N/A	684.56
MW-12	718.27	10/3/2020	ND	33.78	N/A	684.49
MW-12	718.27	10/19/2020	ND	33.63	N/A	684.64
MW-12	718.27	10/26/2020	ND	33.58	N/A	684.69
MW-12	718.27	11/9/2020	ND	33.36	N/A	684.91
MW-12	718.27	11/18/2020	ND	33.36	N/A	684.91
MW-12	718.27	11/23/2020	ND	33.30	N/A	684.97
MW-12	718.27	12/7/2020	ND	32.98	N/A	685.29
MW-12	718.27	12/21/2020	ND	37.82	N/A	680.45
MW-12	718.27	12/26/2020	ND	33.11	N/A	685.16
MW-12	718.27	1/10/2021	ND	32.83	N/A	685.44
MW-12	718.27	1/19/2021	ND	32.82	N/A	685.45
MW-12	718.27	1/25/2021	ND	32.54	N/A	685.73
MW-12	718.27	2/1/2021	ND	32.30	N/A	685.97
MW-12	718.27	2/8/2021	ND	32.73	N/A	685.54
MW-12	718.27	2/16/2021	ND	32.21	N/A	686.06
MW-12	718.27	2/22/2021	ND	32.05	N/A	686.22
MW-12	718.27	3/4/2021	ND	32.07	N/A	686.20
MW-12	718.27	3/8/2021	ND	32.32	N/A	685.95
MW-12	718.27	3/15/2021	ND	32.16	N/A	686.11

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-13*	736.29	9/14/2020	ND	41.77	N/A	694.52
MW-13*	736.29	9/18/2020	ND	38.42	N/A	697.87
MW-13*	736.29	9/28/2020	ND	38.40	N/A	697.89
MW-13*	736.29	10/3/2020	ND	38.51	N/A	697.78
MW-13*	736.29	10/19/2020	ND	38.55	N/A	697.74
MW-13*	736.29	10/26/2020	ND	38.62	N/A	697.67
MW-13*	736.29	11/9/2020	ND	38.72	N/A	697.57
MW-13*	736.29	11/18/2020	ND	38.86	N/A	697.43
MW-13*	736.29	11/23/2020	ND	38.75	N/A	697.54
MW-13*	736.29	12/7/2020	ND	38.72	N/A	697.57
MW-13*	736.29	12/21/2020	ND	38.81	N/A	697.48
MW-13*	736.29	12/26/2020	ND	38.92	N/A	697.37
MW-13*	736.29	1/10/2021	ND	39.07	N/A	697.22
MW-13*	736.29	1/19/2021	ND	39.11	N/A	697.18
MW-13*	736.29	1/25/2021	ND	39.28	N/A	697.01
MW-13*	736.29	2/1/2021	ND	39.30	N/A	696.99
MW-13*	736.29	2/8/2021	ND	39.70	N/A	696.59
MW-13*	736.29	2/16/2021	ND	39.58	N/A	696.71
MW-13*	736.29	2/22/2021	ND	39.56	N/A	696.73
MW-13	732.88	3/4/2021	ND	39.52	N/A	696.77
MW-13	732.88	3/8/2021	ND	39.84	N/A	693.04
MW-13	732.88	3/15/2021	ND	40.19	N/A	692.69

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-14	724.88	9/14/2020	ND	31.21	N/A	693.67
MW-14	724.88	9/18/2020	ND	31.24	N/A	693.64
MW-14	724.88	9/28/2020	ND	31.29	N/A	693.59
MW-14	724.88	10/3/2020	ND	31.28	N/A	693.60
MW-14	724.88	10/5/2020	ND	33.28	N/A	691.60
MW-14	724.88	10/19/2020	ND	31.25	N/A	693.63
MW-14	724.88	10/26/2020	ND	31.27	N/A	693.61
MW-14	724.88	11/9/2020	ND	31.18	N/A	693.70
MW-14	724.88	11/18/2020	ND	31.13	N/A	693.75
MW-14	724.88	11/23/2020	ND	31.01	N/A	693.87
MW-14	724.88	12/7/2020	ND	30.85	N/A	694.03
MW-14	724.88	12/21/2020	ND	30.82	N/A	694.06
MW-14	724.88	12/26/2020	ND	30.89	N/A	693.99
MW-14	724.88	1/10/2021	ND	30.73	N/A	694.15
MW-14	724.88	1/19/2021	ND	30.68	N/A	694.20
MW-14	724.88	1/25/2021	ND	30.49	N/A	694.39
MW-14	724.88	2/1/2021	ND	30.53	N/A	694.35
MW-14	724.88	2/8/2021	ND	30.67	N/A	694.21
MW-14	724.88	2/16/2021	ND	30.55	N/A	694.33
MW-14	724.88	2/22/2021	ND	30.34	N/A	694.54
MW-14	724.88	3/4/2021	ND	30.14	N/A	694.74
MW-14	724.88	3/8/2021	ND	30.18	N/A	694.70
MW-14	724.88	3/15/2021	ND	30.10	N/A	694.78

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-15	725.70	9/3/2020	ND	33.31	N/A	692.39
MW-15	725.70	9/5/2020	ND	33.38	N/A	692.32
MW-15	725.70	9/14/2020	ND	34.79	N/A	690.91
MW-15	725.70	9/18/2020	ND	34.81	N/A	690.89
MW-15	725.70	9/28/2020	ND	34.18	N/A	691.52
MW-15	725.70	10/3/2020	ND	34.89	N/A	690.81
MW-15	725.70	10/19/2020	ND	34.88	N/A	690.82
MW-15	725.70	10/26/2020	ND	34.88	N/A	690.82
MW-15	725.70	11/9/2020	ND	34.84	N/A	690.86
MW-15	725.70	11/18/2020	ND	34.85	N/A	690.85
MW-15	725.70	11/23/2020	ND	34.82	N/A	690.88
MW-15	725.70	12/7/2020	ND	35.72	N/A	689.98
MW-15	725.70	12/21/2020	ND	34.66	N/A	691.04
MW-15	725.70	12/26/2020	ND	34.70	N/A	691.00
MW-15	725.70	1/10/2021	ND	34.61	N/A	691.09
MW-15	725.70	1/19/2021	ND	34.58	N/A	691.12
MW-15	725.70	1/25/2021	ND	34.50	N/A	691.20
MW-15	725.70	2/1/2021	ND	34.50	N/A	691.20
MW-15	725.70	2/8/2021	ND	34.60	N/A	691.10
MW-15	725.70	2/16/2021	ND	34.48	N/A	691.22
MW-15	725.70	2/22/2021	ND	34.43	N/A	691.27
MW-15	725.70	3/4/2021	ND	34.32	N/A	691.38
MW-15	725.70	3/8/2021	ND	34.37	N/A	691.33
MW-15	725.70	3/15/2021	ND	34.27	N/A	691.43

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-16	725.49	9/14/2020	ND	26.02	N/A	699.47
MW-16	725.49	9/18/2020	ND	33.90	N/A	691.59
MW-16	725.49	9/28/2020	ND	33.87	N/A	691.62
MW-16	725.49	10/3/2020	ND	33.91	N/A	691.58
MW-16	725.49	10/19/2020	ND	33.89	N/A	691.60
MW-16	725.49	10/26/2020	ND	33.86	N/A	691.63
MW-16	725.49	11/9/2020	ND	33.85	N/A	691.64
MW-16	725.49	11/18/2020	ND	33.85	N/A	691.64
MW-16	725.49	11/23/2020	ND	34.78	N/A	690.71
MW-16	725.49	12/7/2020	ND	33.42	N/A	692.07
MW-16	725.49	12/21/2020	ND	33.73	N/A	691.76
MW-16	725.49	12/26/2020	ND	33.79	N/A	691.70
MW-16	725.49	1/10/2021	ND	33.73	N/A	691.76
MW-16	725.49	1/19/2021	ND	33.69	N/A	691.80
MW-16	725.49	1/25/2021	ND	33.58	N/A	691.91
MW-16	725.49	2/1/2021	ND	33.63	N/A	691.86
MW-16	725.49	2/8/2021	ND	33.71	N/A	691.78
MW-16	725.49	2/16/2021	ND	33.64	N/A	691.85
MW-16	725.49	2/22/2021	ND	33.57	N/A	691.92
MW-16	725.49	3/4/2021	ND	33.48	N/A	692.01
MW-16	725.49	3/8/2021	ND	33.55	N/A	691.94
MW-16	725.49	3/15/2021	ND	33.50	N/A	691.99

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-17	727.50	9/14/2020	ND	31.32	N/A	696.18
MW-17	727.50	9/18/2020	ND	35.71	N/A	691.79
MW-17	727.50	9/28/2020	ND	35.70	N/A	691.80
MW-17	727.50	10/3/2020	ND	35.75	N/A	691.75
MW-17	727.50	10/19/2020	ND	35.73	N/A	691.77
MW-17	727.50	10/26/2020	ND	35.72	N/A	691.78
MW-17	727.50	10/28/2020	ND	37.72	N/A	689.78
MW-17	727.50	11/9/2020	ND	35.72	N/A	691.78
MW-17	727.50	11/18/2020	ND	35.73	N/A	691.77
MW-17	727.50	11/23/2020	ND	35.68	N/A	691.82
MW-17	727.50	12/7/2020	ND	35.60	N/A	691.90
MW-17	727.50	12/21/2020	ND	35.62	N/A	691.88
MW-17	727.50	12/26/2020	ND	35.70	N/A	691.80
MW-17	727.50	1/10/2021	ND	35.68	N/A	691.82
MW-17	727.50	1/19/2021	ND	35.68	N/A	691.82
MW-17	727.50	1/25/2021	ND	35.56	N/A	691.94
MW-17	727.50	2/1/2021	ND	35.61	N/A	691.89
MW-17	727.50	2/8/2021	ND	35.73	N/A	691.77
MW-17	727.50	2/16/2021	ND	35.66	N/A	691.84
MW-17	727.50	2/22/2021	ND	35.63	N/A	691.87
MW-17	727.50	3/4/2021	ND	35.57	N/A	691.93
MW-17	727.50	3/8/2021	ND	35.63	N/A	691.87
MW-17	727.50	3/15/2021	ND	35.55	N/A	691.95

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-18	729.75	9/3/2020	ND	36.67	N/A	693.08
MW-18	729.75	9/14/2020	ND	39.78	N/A	689.97
MW-18	729.75	9/18/2020	ND	39.75	N/A	690.00
MW-18	729.75	9/28/2020	ND	39.71	N/A	690.04
MW-18	729.75	10/3/2020	ND	39.79	N/A	689.96
MW-18	729.75	10/19/2020	ND	39.88	N/A	689.87
MW-18	729.75	10/26/2020	ND	39.93	N/A	689.82
MW-18	729.75	11/9/2020	ND	40.04	N/A	689.71
MW-18	729.75	11/18/2020	ND	40.15	N/A	689.60
MW-18	729.75	11/23/2020	ND	40.17	N/A	689.58
MW-18	729.75	12/7/2020	ND	40.11	N/A	689.64
MW-18	729.75	12/21/2020	40.13	40.88	0.75	689.42
MW-18	729.75	12/26/2020	39.85	41.95	2.10	689.34
MW-18	729.75	1/10/2021	39.89	45.56	5.67	688.34
MW-18	729.75	1/19/2021	39.24	45.50	6.26	688.83
MW-18	729.75	1/25/2021	39.35	45.57	6.22	688.74
MW-18	729.75	2/1/2021	39.30	45.80	6.50	688.71
MW-18	729.75	2/8/2021	39.57	46.40	6.83	688.35
MW-18	729.75	2/16/2021	39.27	46.48	7.21	688.55
MW-18	729.75	2/22/2021	39.16	46.44	7.28	688.64
MW-18	729.75	3/4/2021	ND	39.21	N/A	690.54
MW-18	729.75	3/8/2021	NM	NM	NM	NM
MW-18	729.75	3/15/2021	NM	NM	NM	NM

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-19	726.29	9/14/2020	ND	13.45	N/A	712.84
MW-19	726.29	9/18/2020	ND	31.25	N/A	695.04
MW-19	726.29	9/28/2020	ND	31.27	N/A	695.02
MW-19	726.29	10/3/2020	ND	31.28	N/A	695.01
MW-19	726.29	10/5/2020	ND	33.28	N/A	693.01
MW-19	726.29	10/19/2020	ND	31.26	N/A	695.03
MW-19	726.29	10/26/2020	ND	31.28	N/A	695.01
MW-19	726.29	11/9/2020	ND	31.30	N/A	694.99
MW-19	726.29	11/18/2020	ND	31.35	N/A	694.94
MW-19	726.29	11/23/2020	ND	31.28	N/A	695.01
MW-19	726.29	12/7/2020	ND	31.23	N/A	695.06
MW-19	726.29	12/21/2020	ND	31.30	N/A	694.99
MW-19	726.29	12/26/2020	ND	31.35	N/A	694.94
MW-19	726.29	1/10/2021	ND	31.28	N/A	695.01
MW-19	726.29	1/19/2021	ND	31.26	N/A	695.03
MW-19	726.29	1/25/2021	ND	41.09	N/A	685.20
MW-19	726.29	2/1/2021	ND	31.14	N/A	695.15
MW-19	726.29	2/8/2021	ND	31.22	N/A	695.07
MW-19	726.29	2/16/2021	ND	31.11	N/A	695.18
MW-19	726.29	2/22/2021	ND	30.92	N/A	695.37
MW-19	726.29	3/4/2021	ND	30.58	N/A	695.71
MW-19	726.29	3/8/2021	ND	30.56	N/A	695.73
MW-19	726.29	3/15/2021	ND	30.44	N/A	695.85

**Table 3**  
**Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-20	729.69	9/3/2020	ND	41.44	N/A	688.25
MW-20	729.69	9/14/2020	ND	42.25	N/A	687.44
MW-20	729.69	9/18/2020	ND	40.21	N/A	689.48
MW-20	729.69	9/28/2020	ND	42.17	N/A	687.52
MW-20	729.69	10/3/2020	ND	42.12	N/A	687.57
MW-20	729.69	10/19/2020	ND	42.16	N/A	687.53
MW-20	729.69	10/21/2020	ND	44.16	N/A	685.53
MW-20	729.69	10/26/2020	ND	42.15	N/A	687.54
MW-20	729.69	11/9/2020	ND	42.14	N/A	687.55
MW-20	729.69	11/18/2020	ND	42.29	N/A	687.40
MW-20	729.69	11/23/2020	ND	42.22	N/A	687.47
MW-20	729.69	12/7/2020	ND	42.15	N/A	687.54
MW-20	729.69	12/21/2020	ND	42.26	N/A	687.43
MW-20	729.69	12/26/2020	ND	42.31	N/A	687.38
MW-20	729.69	1/10/2021	ND	42.46	N/A	687.23
MW-20	729.69	1/19/2021	ND	42.54	N/A	687.15
MW-20	729.69	1/25/2021	ND	42.56	N/A	687.13
MW-20	729.69	2/1/2021	ND	42.58	N/A	687.11
MW-20	729.69	2/8/2021	ND	42.84	N/A	686.85
MW-20	729.69	2/16/2021	ND	42.69	N/A	687.00
MW-20	729.69	2/22/2021	ND	42.68	N/A	687.01
MW-20	729.69	3/4/2021	ND	42.62	N/A	687.07
MW-20	729.69	3/8/2021	ND	42.69	N/A	687.00
MW-20	729.69	3/15/2021	ND	42.60	N/A	687.09

**Table 3  
Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-21	724.97	9/14/2020	ND	24.99	N/A	699.98
MW-21	724.97	9/18/2020	ND	30.79	N/A	694.18
MW-21	724.97	9/28/2020	ND	30.73	N/A	694.24
MW-21	724.97	10/3/2020	ND	30.81	N/A	694.16
MW-21	724.97	10/19/2020	ND	30.76	N/A	694.21
MW-21	724.97	10/26/2020	ND	30.74	N/A	694.23
MW-21	724.97	11/9/2020	ND	30.78	N/A	694.19
MW-21	724.97	11/18/2020	ND	30.81	N/A	694.16
MW-21	724.97	11/23/2020	ND	30.76	N/A	694.21
MW-21	724.97	12/7/2020	ND	30.71	N/A	694.26
MW-21	724.97	12/21/2020	ND	30.80	N/A	694.17
MW-21	724.97	12/26/2020	ND	30.87	N/A	694.10
MW-21	724.97	1/10/2021	ND	30.92	N/A	694.05
MW-21	724.97	1/19/2021	ND	30.90	N/A	694.07
MW-21	724.97	1/25/2021	ND	30.73	N/A	694.24
MW-21	724.97	2/1/2021	ND	30.78	N/A	694.19
MW-21	724.97	2/8/2021	ND	30.93	N/A	694.04
MW-21	724.97	2/16/2021	ND	30.84	N/A	694.13
MW-21	724.97	2/22/2021	ND	30.82	N/A	694.15
MW-21	724.97	3/4/2021	ND	30.80	N/A	694.17
MW-21	724.97	3/8/2021	ND	30.91	N/A	694.06
MW-21	724.97	3/15/2021	ND	30.81	N/A	694.16

**Table 3  
Summary of Monitoring Well Gauging Data**

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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-22	721.89	1/10/2020	ARP	ARP	ARP	ARP
MW-22	721.89	9/14/2020	ND	34.88	N/A	687.01
MW-22	721.89	9/18/2020	ND	34.82	N/A	687.07
MW-22	721.89	9/28/2020	ND	34.77	N/A	687.12
MW-22	721.89	10/3/2020	ND	34.88	N/A	687.01
MW-22	721.89	10/19/2020	ND	35.02	N/A	686.87
MW-22	721.89	10/26/2020	ND	35.12	N/A	686.77
MW-22	721.89	11/9/2020	ND	34.80	N/A	687.09
MW-22	721.89	11/18/2020	ND	34.98	N/A	686.91
MW-22	721.89	11/23/2020	ND	34.90	N/A	686.99
MW-22	721.89	12/7/2020	34.71	36.79	2.08	686.63
MW-22	721.89	12/21/2020	ARP	ARP	ARP	ARP
MW-22	721.89	12/26/2020	35.85	37.54	1.69	685.59
MW-22	721.89	1/19/2021	ARP	ARP	ARP	ARP
MW-22	721.89	1/25/2021	ARP	ARP	ARP	ARP
MW-22	721.89	2/1/2021	ND	Dry	N/A	Dry
MW-22	721.89	2/8/2021	NM	NM	NM	NM
MW-22	721.89	2/16/2021	NM	NM	NM	NM
MW-22	721.89	2/22/2021	NM	NM	NM	NM
MW-22	721.89	3/4/2021	37.06	37.59	0.53	684.69
MW-22	721.89	3/8/2021	NM	NM	NM	NM
MW-22	721.89	3/15/2021	NM	NM	NM	NM

**Table 3  
Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-23* **	724.32	9/14/2020	ND	30.06	N/A	694.26
MW-23* **	724.32	9/18/2020	ND	30.38	N/A	693.94
MW-23* **	724.32	9/28/2020	ND	29.82	N/A	694.50
MW-23*	723.81	10/3/2020	ND	29.86	N/A	693.95
MW-23*	723.81	10/19/2020	ND	29.81	N/A	694.00
MW-23*	723.81	10/26/2020	ND	29.78	N/A	694.03
MW-23*	723.81	11/9/2020	ND	29.79	N/A	694.02
MW-23*	723.81	11/18/2020	ND	29.82	N/A	693.99
MW-23*	723.81	11/23/2020	ND	30.79	N/A	693.02
MW-23*	723.81	12/7/2020	ND	29.73	N/A	694.08
MW-23*	723.81	12/21/2020	ND	29.79	N/A	694.02
MW-23*	723.81	12/26/2020	ND	28.10	N/A	695.71
MW-23*	723.81	1/10/2021	ND	29.88	N/A	693.93
MW-23*	723.81	1/19/2021	ND	29.57	N/A	694.24
MW-23*	723.81	1/25/2021	ND	29.74	N/A	694.07
MW-23*	723.81	2/1/2021	ND	29.76	N/A	694.05
MW-23*	723.81	2/8/2021	ND	29.89	N/A	693.92
MW-23*	723.81	2/16/2021	ND	29.80	N/A	694.01
MW-23*	723.81	2/22/2021	ND	29.75	N/A	694.06
MW-23	723.74	3/4/2021	ND	29.74	N/A	694.00
MW-23	723.74	3/8/2021	ND	29.83	N/A	693.91
MW-23	723.74	3/15/2021	ND	29.74	N/A	694.00

**Table 3  
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Colonial Pipeline Company  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-24	737.63	9/14/2020	44.36	46.69	2.33	692.65
MW-24	737.63	9/18/2020	43.71	48.36	4.65	692.67
MW-24	737.63	9/28/2020	41.54	54.21	12.67	692.70
MW-24	737.63	10/3/2020	41.54	55.61	14.07	692.32
MW-24	737.63	10/19/2020	41.72	55.25	13.53	692.29
MW-24	737.63	10/26/2020	41.26	55.45	14.19	692.57
MW-24	737.63	11/9/2020	42.63	52.83	10.20	692.27
MW-24	737.63	11/18/2020	ARP	ARP	ARP	ARP
MW-24	737.63	11/23/2020	ARP	ARP	ARP	ARP
MW-24	737.63	12/7/2020	ARP	ARP	ARP	ARP
MW-24	737.63	12/21/2020	ARP	ARP	ARP	ARP
MW-24	737.63	12/26/2020	43.01	56.43	13.42	691.03
MW-24	737.63	1/10/2021	ARP	ARP	ARP	ARP
MW-24	737.63	1/19/2021	ARP	ARP	ARP	ARP
MW-24	737.63	1/25/2021	ARP	ARP	ARP	ARP
MW-24	737.63	2/1/2021	43.68	56.60	12.92	690.49
MW-24	737.63	2/8/2021	NM	NM	NM	NM
MW-24	737.63	2/16/2021	NM	NM	NM	NM
MW-24	737.63	2/22/2021	NM	NM	NM	NM
MW-24	737.63	3/4/2021	44.03	55.90	11.87	690.42
MW-24	737.63	3/8/2021	NM	NM	NM	NM
MW-24	737.63	3/15/2021	NM	NM	NM	NM

**Table 3  
Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-25	734.04	9/14/2020	ND	43.52	N/A	690.52
MW-25	734.04	9/18/2020	ND	43.48	N/A	690.56
MW-25	734.04	9/28/2020	ND	43.40	N/A	690.64
MW-25	734.04	10/3/2020	ND	43.49	N/A	690.55
MW-25	734.04	10/19/2020	ND	43.54	N/A	690.50
MW-25	734.04	10/21/2020	ND	45.54	N/A	688.50
MW-25	734.04	10/26/2020	ND	43.57	N/A	690.47
MW-25	734.04	11/9/2020	ND	43.61	N/A	690.43
MW-25	734.04	11/18/2020	ND	43.69	N/A	690.35
MW-25	734.04	11/23/2020	ND	44.71	N/A	689.33
MW-25	734.04	12/7/2020	ND	43.66	N/A	690.38
MW-25	734.04	12/21/2020	ND	43.85	N/A	690.19
MW-25	734.04	12/26/2020	ND	43.92	N/A	690.12
MW-25	734.04	1/10/2021	ND	44.16	N/A	689.88
MW-25	734.04	1/19/2021	ND	44.25	N/A	689.79
MW-25	734.04	1/25/2021	ND	44.29	N/A	689.75
MW-25	734.04	2/1/2021	ND	44.39	N/A	689.65
MW-25	734.04	2/8/2021	ND	44.66	N/A	689.38
MW-25	734.04	2/16/2021	ND	44.49	N/A	689.55
MW-25	734.04	2/22/2021	ND	44.39	N/A	689.65
MW-25	734.04	3/4/2021	ND	44.42	N/A	689.62
MW-25	734.04	3/8/2021	ND	44.57	N/A	689.47
MW-25	734.04	3/15/2021	ND	44.54	N/A	689.50

**Table 3  
Summary of Monitoring Well Gauging Data**

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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-26	717.71	9/14/2020	31.19	33.25	2.06	685.97
MW-26	717.71	9/18/2020	30.70	34.61	3.91	685.96
MW-26	717.71	9/28/2020	29.56	37.80	8.24	685.95
MW-26	717.71	10/3/2020	29.56	38.75	9.19	685.69
MW-26	717.71	10/19/2020	28.91	39.92	11.01	685.85
MW-26	717.71	10/21/2020	28.91	39.92	11.01	685.85
MW-26	717.71	10/26/2020	28.84	39.89	11.05	685.91
MW-26	717.71	11/9/2020	28.85	40.03	11.18	685.87
MW-26	717.71	11/18/2020	ARP	ARP	ARP	ARP
MW-26	717.71	11/23/2020	42.57	54.00	11.43	672.08
MW-26	717.71	12/7/2020	ARP	ARP	ARP	ARP
MW-26	717.71	12/21/2020	ARP	ARP	ARP	ARP
MW-26	717.71	12/26/2020	ARP	ARP	ARP	ARP
MW-26	717.71	1/10/2021	ND	Dry	N/A	Dry
MW-26	717.71	1/19/2021	ND	Dry	N/A	Dry
MW-26	717.71	1/25/2021	ND	Dry	N/A	Dry
MW-26	717.71	2/1/2021	ND	Dry	N/A	Dry
MW-26	717.71	2/8/2021	ND	Dry	N/A	Dry
MW-26	717.71	2/16/2021	NM	NM	NM	NM
MW-26	717.71	2/22/2021	NM	NM	NM	NM
MW-26	717.71	3/4/2021	NM	NM	NM	NM
MW-26	717.71	3/8/2021	NM	NM	NM	NM
MW-26	717.71	3/15/2021	NM	NM	NM	NM

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-27	716.19	9/14/2020	ND	33.27	N/A	682.92
MW-27	716.19	9/18/2020	ND	33.24	N/A	682.95
MW-27	716.19	9/28/2020	ND	33.18	N/A	683.01
MW-27	716.19	10/3/2020	ND	33.23	N/A	682.96
MW-27	716.19	10/19/2020	ND	33.24	N/A	682.95
MW-27	716.19	10/26/2020	ND	33.23	N/A	682.96
MW-27	716.19	11/9/2020	ND	33.21	N/A	682.98
MW-27	716.19	11/18/2020	ND	33.25	N/A	682.94
MW-27	716.19	11/23/2020	ND	33.19	N/A	683.00
MW-27	716.19	12/7/2020	ND	33.02	N/A	683.17
MW-27	716.19	12/21/2020	ND	33.15	N/A	683.04
MW-27	716.19	12/26/2020	ND	33.14	N/A	683.05
MW-27	716.19	1/10/2021	ND	33.25	N/A	682.94
MW-27	716.19	1/19/2021	ND	33.80	N/A	682.39
MW-27	716.19	1/25/2021	ND	34.01	N/A	682.18
MW-27	716.19	2/1/2021	ND	34.08	N/A	682.11
MW-27	716.19	2/8/2021	ND	34.29	N/A	681.90
MW-27	716.19	2/16/2021	ND	33.92	N/A	682.27
MW-27	716.19	2/22/2021	ND	33.62	N/A	682.57
MW-27	716.19	3/4/2021	ND	33.92	N/A	682.27
MW-27	716.19	3/8/2021	ND	33.53	N/A	682.66
MW-27	716.19	3/15/2021	ND	33.50	N/A	682.69

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-28	720.45	9/14/2020	ND	29.37	N/A	691.08
MW-28	720.45	9/18/2020	ND	29.34	N/A	691.11
MW-28	720.45	9/28/2020	ND	29.32	N/A	691.13
MW-28	720.45	10/3/2020	ND	29.36	N/A	691.09
MW-28	720.45	10/19/2020	ND	29.33	N/A	691.12
MW-28	720.45	10/26/2020	ND	29.29	N/A	691.16
MW-28	720.45	11/9/2020	ND	29.25	N/A	691.20
MW-28	720.45	11/18/2020	ND	29.22	N/A	691.23
MW-28	720.45	11/23/2020	ND	29.19	N/A	691.26
MW-28	720.45	12/7/2020	ND	29.09	N/A	691.36
MW-28	720.45	12/21/2020	ND	29.03	N/A	691.42
MW-28	720.45	12/26/2020	ND	29.09	N/A	691.36
MW-28	720.45	1/10/2021	ND	29.02	N/A	691.43
MW-28	720.45	1/19/2021	ND	28.90	N/A	691.55
MW-28	720.45	1/25/2021	ND	28.84	N/A	691.61
MW-28	720.45	2/1/2021	ND	28.85	N/A	691.60
MW-28	720.45	2/8/2021	ND	28.91	N/A	691.54
MW-28	720.45	2/16/2021	ND	28.82	N/A	691.63
MW-28	720.45	2/22/2021	ND	28.76	N/A	691.69
MW-28	720.45	3/4/2021	ND	28.66	N/A	691.79
MW-28	720.45	3/8/2021	ND	28.70	N/A	691.75
MW-28	720.45	3/15/2021	ND	28.59	N/A	691.86

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-29	718.73	9/14/2020	ND	29.71	N/A	689.02
MW-29	718.73	9/18/2020	ND	29.79	N/A	688.94
MW-29	718.73	9/28/2020	ND	29.86	N/A	688.87
MW-29	718.73	10/3/2020	ND	30.00	N/A	688.73
MW-29	718.73	10/19/2020	ND	30.10	N/A	688.63
MW-29	718.73	10/26/2020	ND	30.11	N/A	688.62
MW-29	718.73	11/9/2020	ND	30.07	N/A	688.66
MW-29	718.73	11/18/2020	ND	30.12	N/A	688.61
MW-29	718.73	11/23/2020	ND	30.05	N/A	688.68
MW-29	718.73	12/7/2020	ND	29.85	N/A	688.88
MW-29	718.73	12/21/2020	ND	29.91	N/A	688.82
MW-29	718.73	12/26/2020	ND	29.94	N/A	688.79
MW-29	718.73	1/10/2021	ND	29.87	N/A	688.86
MW-29	718.73	1/19/2021	ND	29.92	N/A	688.81
MW-29	718.73	1/25/2021	ND	29.84	N/A	688.89
MW-29	718.73	2/1/2021	ND	29.81	N/A	688.92
MW-29	718.73	2/8/2021	ND	30.09	N/A	688.64
MW-29	718.73	2/16/2021	ND	29.82	N/A	688.91
MW-29	718.73	2/22/2021	ND	29.68	N/A	689.05
MW-29	718.73	3/4/2021	ND	29.42	N/A	689.31
MW-29	718.73	3/8/2021	ND	29.59	N/A	689.14
MW-29	718.73	3/15/2021	ND	29.49	N/A	689.24

**Table 3  
Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-30	715.08	9/14/2020	ND	30.59	N/A	684.49
MW-30	715.08	9/18/2020	ND	30.59	N/A	684.49
MW-30	715.08	9/28/2020	ND	30.50	N/A	684.58
MW-30	715.08	10/3/2020	ND	30.54	N/A	684.54
MW-30	715.08	10/19/2020	ND	30.32	N/A	684.76
MW-30	715.08	10/26/2020	ND	30.21	N/A	684.87
MW-30	715.08	11/9/2020	ND	30.02	N/A	685.06
MW-30	715.08	11/18/2020	ND	29.94	N/A	685.14
MW-30	715.08	11/23/2020	ND	29.89	N/A	685.19
MW-30	715.08	12/7/2020	ND	29.57	N/A	685.51
MW-30	715.08	12/21/2020	ND	29.43	N/A	685.65
MW-30	715.08	12/26/2020	ND	29.42	N/A	685.66
MW-30	715.08	1/10/2021	ND	29.13	N/A	685.95
MW-30	715.08	1/19/2021	ND	29.00	N/A	686.08
MW-30	715.08	1/25/2021	ND	28.83	N/A	686.25
MW-30	715.08	2/1/2021	ND	28.73	N/A	686.35
MW-30	715.08	2/8/2021	ND	28.82	N/A	686.26
MW-30	715.08	2/16/2021	ND	28.54	N/A	686.54
MW-30	715.08	2/22/2021	ND	28.30	N/A	686.78
MW-30	715.08	3/4/2021	ND	28.05	N/A	687.03
MW-30	715.08	3/8/2021	ND	28.18	N/A	686.90
MW-30	715.08	3/15/2021	ND	28.03	N/A	687.05

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-31	721.45	9/14/2020	ND	26.39	N/A	695.06
MW-31	721.45	9/18/2020	ND	27.69	N/A	693.76
MW-31	721.45	9/28/2020	ND	27.64	N/A	693.81
MW-31	721.45	10/3/2020	ND	27.69	N/A	693.76
MW-31	721.45	10/19/2020	ND	27.62	N/A	693.83
MW-31	721.45	10/21/2020	ND	29.62	N/A	691.83
MW-31	721.45	10/26/2020	ND	27.61	N/A	693.84
MW-31	721.45	11/9/2020	ND	27.61	N/A	693.84
MW-31	721.45	11/18/2020	ND	27.61	N/A	693.84
MW-31	721.45	11/23/2020	ND	27.56	N/A	693.89
MW-31	721.45	12/7/2020	ND	27.49	N/A	693.96
MW-31	721.45	12/21/2020	ND	27.53	N/A	693.92
MW-31	721.45	12/26/2020	ND	27.61	N/A	693.84
MW-31	721.45	1/10/2021	ND	27.58	N/A	693.87
MW-31	721.45	1/19/2021	ND	27.54	N/A	693.91
MW-31	721.45	1/25/2021	ND	27.40	N/A	694.05
MW-31	721.45	2/1/2021	ND	27.43	N/A	694.02
MW-31	721.45	2/8/2021	ND	27.52	N/A	693.93
MW-31	721.45	2/16/2021	ND	27.44	N/A	694.01
MW-31	721.45	2/22/2021	ND	27.34	N/A	694.11
MW-31	721.45	3/4/2021	ND	27.28	N/A	694.17
MW-31	721.45	3/8/2021	ND	27.34	N/A	694.11
MW-31	721.45	3/15/2021	ND	27.28	N/A	694.17

**Table 3**  
**Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-32	691.78	9/14/2020	ND	16.19	N/A	675.59
MW-32	691.78	9/18/2020	ND	16.06	N/A	675.72
MW-32	691.78	9/28/2020	ND	15.63	N/A	676.15
MW-32	691.78	10/3/2020	ND	15.73	N/A	676.05
MW-32	691.78	10/19/2020	ND	15.09	N/A	676.69
MW-32	691.78	10/26/2020	ND	14.98	N/A	676.80
MW-32	691.78	11/9/2020	ND	14.57	N/A	677.21
MW-32	691.78	11/18/2020	ND	14.38	N/A	677.40
MW-32	691.78	11/23/2020	ND	14.11	N/A	677.67
MW-32	691.78	12/7/2020	ND	13.60	N/A	678.18
MW-32	691.78	12/21/2020	ND	13.31	N/A	678.47
MW-32	691.78	12/26/2020	ND	13.47	N/A	678.31
MW-32	691.78	1/10/2021	ND	13.21	N/A	678.57
MW-32	691.78	1/19/2021	ND	13.16	N/A	678.62
MW-32	691.78	1/25/2021	ND	12.82	N/A	678.96
MW-32	691.78	2/1/2021	ND	12.35	N/A	679.43
MW-32	691.78	2/8/2021	ND	12.72	N/A	679.06
MW-32	691.78	2/16/2021	ND	11.97	N/A	679.81
MW-32	691.78	2/22/2021	ND	11.70	N/A	680.08
MW-32	691.78	3/4/2021	ND	11.47	N/A	680.31
MW-32	691.78	3/8/2021	ND	11.84	N/A	679.94
MW-32	691.78	3/15/2021	ND	11.67	N/A	680.11

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-33	686.70	9/14/2020	ND	13.20	N/A	673.50
MW-33	686.70	9/18/2020	ND	13.03	N/A	673.67
MW-33	686.70	9/28/2020	ND	12.63	N/A	674.07
MW-33	686.70	10/3/2020	ND	12.76	N/A	673.94
MW-33	686.70	10/19/2020	ND	12.12	N/A	674.58
MW-33	686.70	10/26/2020	ND	12.03	N/A	674.67
MW-33	686.70	11/9/2020	ND	11.58	N/A	675.12
MW-33	686.70	11/18/2020	ND	11.30	N/A	675.40
MW-33	686.70	11/23/2020	ND	11.13	N/A	675.57
MW-33	686.70	12/7/2020	ND	10.53	N/A	676.17
MW-33	686.70	12/21/2020	ND	10.18	N/A	676.52
MW-33	686.70	12/26/2020	ND	10.23	N/A	676.47
MW-33	686.70	1/10/2021	ND	9.99	N/A	676.71
MW-33	686.70	1/19/2021	ND	10.02	N/A	676.68
MW-33	686.70	1/25/2021	ND	9.77	N/A	676.93
MW-33	686.70	2/1/2021	ND	9.15	N/A	677.55
MW-33	686.70	2/8/2021	ND	9.49	N/A	677.21
MW-33	686.70	2/16/2021	ND	8.61	N/A	678.09
MW-33	686.70	2/22/2021	ND	8.36	N/A	678.34
MW-33	686.70	3/4/2021	ND	8.19	N/A	678.51
MW-33	686.70	3/8/2021	ND	8.65	N/A	678.05
MW-33	686.70	3/15/2021	ND	8.62	N/A	678.08

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-34	683.89	9/14/2020	ND	10.89	N/A	673.00
MW-34	683.89	9/18/2020	ND	10.60	N/A	673.29
MW-34	683.89	9/28/2020	ND	10.25	N/A	673.64
MW-34	683.89	10/3/2020	ND	10.47	N/A	673.42
MW-34	683.89	10/19/2020	ND	9.77	N/A	674.12
MW-34	683.89	10/21/2020	ND	11.77	N/A	672.12
MW-34	683.89	10/26/2020	ND	9.70	N/A	674.19
MW-34	683.89	11/9/2020	ND	9.18	N/A	674.71
MW-34	683.89	11/18/2020	ND	8.93	N/A	674.96
MW-34	683.89	11/23/2020	ND	8.75	N/A	675.14
MW-34	683.89	12/7/2020	ND	8.10	N/A	675.79
MW-34	683.89	12/21/2020	ND	7.74	N/A	676.15
MW-34	683.89	12/26/2020	ND	7.80	N/A	676.09
MW-34	683.89	1/10/2021	ND	7.61	N/A	676.28
MW-34	683.89	1/19/2021	ND	7.69	N/A	676.20
MW-34	683.89	1/25/2021	ND	7.44	N/A	676.45
MW-34	683.89	2/1/2021	ND	6.71	N/A	677.18
MW-34	683.89	2/8/2021	ND	7.06	N/A	676.83
MW-34	683.89	2/16/2021	ND	6.17	N/A	677.72
MW-34	683.89	2/22/2021	ND	5.95	N/A	677.94
MW-34	683.89	3/4/2021	ND	5.85	N/A	678.04
MW-34	683.89	3/8/2021	ND	6.32	N/A	677.57
MW-34	683.89	3/15/2021	ND	6.32	N/A	677.57

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-35	707.14	9/14/2020	ND	26.78	N/A	680.36
MW-35	707.14	9/18/2020	ND	26.78	N/A	680.36
MW-35	707.14	9/28/2020	ND	26.52	N/A	680.62
MW-35	707.14	10/3/2020	ND	26.48	N/A	680.66
MW-35	707.14	10/19/2020	ND	25.90	N/A	681.24
MW-35	707.14	10/26/2020	ND	25.76	N/A	681.38
MW-35	707.14	11/9/2020	ND	25.48	N/A	681.66
MW-35	707.14	11/18/2020	ND	25.11	N/A	682.03
MW-35	707.14	11/23/2020	ND	25.00	N/A	682.14
MW-35	707.14	12/7/2020	ND	24.62	N/A	682.52
MW-35	707.14	12/21/2020	ND	24.35	N/A	682.79
MW-35	707.14	12/26/2020	ND	24.15	N/A	682.99
MW-35	707.14	1/10/2021	ND	23.81	N/A	683.33
MW-35	707.14	1/19/2021	ND	23.70	N/A	683.44
MW-35	707.14	1/25/2021	ND	23.54	N/A	683.60
MW-35	707.14	2/1/2021	ND	23.32	N/A	683.82
MW-35	707.14	2/8/2021	ND	23.25	N/A	683.89
MW-35	707.14	2/16/2021	ND	22.71	N/A	684.43
MW-35	707.14	2/22/2021	ND	22.16	N/A	684.98
MW-35	707.14	3/4/2021	ND	21.80	N/A	685.34
MW-35	707.14	3/8/2021	ND	21.96	N/A	685.18
MW-35	707.14	3/15/2021	ND	21.98	N/A	685.16

**Table 3  
Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-36	710.54	9/14/2020	ND	28.62	N/A	681.92
MW-36	710.54	9/18/2020	ND	28.61	N/A	681.93
MW-36	710.54	9/28/2020	ND	28.35	N/A	682.19
MW-36	710.54	10/3/2020	ND	28.31	N/A	682.23
MW-36	710.54	10/19/2020	ND	27.73	N/A	682.81
MW-36	710.54	10/26/2020	ND	27.64	N/A	682.90
MW-36	710.54	11/9/2020	ND	27.44	N/A	683.10
MW-36	710.54	11/18/2020	ND	27.05	N/A	683.49
MW-36	710.54	11/23/2020	ND	26.92	N/A	683.62
MW-36	710.54	12/7/2020	ND	26.57	N/A	683.97
MW-36	710.54	12/21/2020	ND	26.29	N/A	684.25
MW-36	710.54	12/26/2020	ND	26.13	N/A	684.41
MW-36	710.54	1/10/2021	ND	25.82	N/A	684.72
MW-36	710.54	1/19/2021	ND	25.68	N/A	684.86
MW-36	710.54	1/25/2021	ND	25.56	N/A	684.98
MW-36	710.54	2/1/2021	ND	25.31	N/A	685.23
MW-36	710.54	2/8/2021	ND	25.21	N/A	685.33
MW-36	710.54	2/16/2021	ND	24.60	N/A	685.94
MW-36	710.54	2/22/2021	ND	23.99	N/A	686.55
MW-36	710.54	3/4/2021	ND	23.70	N/A	686.84
MW-36	710.54	3/8/2021	ND	23.93	N/A	686.61
MW-36	710.54	3/11/2021	ND	23.94	N/A	686.60
MW-36	710.54	3/15/2021	ND	23.99	N/A	686.55

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-37**	714.94	9/14/2020	ND	26.90	N/A	688.04
MW-37**	714.94	9/18/2020	ND	26.92	N/A	688.02
MW-37**	714.94	9/28/2020	ND	26.99	N/A	687.95
MW-37**	714.94	10/3/2020	ND	27.14	N/A	687.80
MW-37**	714.94	10/19/2020	ND	27.18	N/A	687.76
MW-37**	714.94	10/26/2020	ND	27.21	N/A	687.73
MW-37**	714.94	11/9/2020	ND	27.16	N/A	687.78
MW-37**	714.94	11/18/2020	ND	27.18	N/A	687.76
MW-37**	714.94	11/23/2020	ND	27.12	N/A	687.82
MW-37**	714.94	12/7/2020	ND	26.90	N/A	688.04
MW-37**	714.94	12/21/2020	ND	26.85	N/A	688.09
MW-37**	714.94	12/26/2020	ND	26.89	N/A	688.05
MW-37**	714.94	1/10/2021	ND	26.69	N/A	688.25
MW-37**	714.94	1/19/2021	ND	26.61	N/A	688.33
MW-37**	714.94	1/25/2021	26.38	26.60	0.22	688.50
MW-37**	714.94	2/1/2021	26.08	26.99	0.91	688.62
MW-37**	714.94	2/8/2021	25.74	28.73	2.99	688.40
MW-37**	714.94	2/16/2021	24.25	31.24	6.99	688.82
MW-37	NM	2/22/2021	ND	26.35	N/A	NM
MW-37	NM	3/4/2021	ARP	ARP	ARP	ARP
MW-37	NM	3/8/2021	NM	NM	NM	NM
MW-37	NM	3/15/2021	NM	NM	NM	NM

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-38	726.74	9/14/2020	ND	37.56	N/A	689.18
MW-38	726.74	9/18/2020	ND	37.66	N/A	689.08
MW-38	726.74	9/28/2020	ND	37.45	N/A	689.29
MW-38	726.74	10/3/2020	ND	37.55	N/A	689.19
MW-38	726.74	10/19/2020	ND	37.65	N/A	689.09
MW-38	726.74	10/26/2020	ND	37.71	N/A	689.03
MW-38	726.74	11/9/2020	ND	37.80	N/A	688.94
MW-38	726.74	11/18/2020	ND	37.90	N/A	688.84
MW-38	726.74	11/23/2020	ND	37.91	N/A	688.83
MW-38	726.74	12/7/2020	ND	37.87	N/A	688.87
MW-38	726.74	12/21/2020	ND	38.18	N/A	688.56
MW-38	726.74	12/26/2020	ND	38.23	N/A	688.51
MW-38	726.74	1/10/2021	ND	38.54	N/A	688.20
MW-38	726.74	1/19/2021	ND	39.13	N/A	687.61
MW-38	726.74	1/25/2021	ND	39.23	N/A	687.51
MW-38	726.74	2/1/2021	ND	39.28	N/A	687.46
MW-38	726.74	2/8/2021	ND	39.65	N/A	687.09
MW-38	726.74	2/16/2021	ND	39.38	N/A	687.36
MW-38	726.74	2/22/2021	ND	39.31	N/A	687.43
MW-38	726.74	3/4/2021	ND	39.06	N/A	687.68
MW-38	726.74	3/8/2021	ND	39.23	N/A	687.51
MW-38	726.74	3/15/2021	ND	39.27	N/A	687.47

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-39	738.13	9/14/2020	ND	41.90	N/A	696.23
MW-39	738.13	9/18/2020	ND	38.31	N/A	699.82
MW-39	738.13	9/28/2020	ND	38.33	N/A	699.80
MW-39	738.13	10/3/2020	ND	38.58	N/A	699.55
MW-39	738.13	10/19/2020	38.51	39.71	1.20	699.30
MW-39	738.13	11/9/2020	38.48	39.04	0.56	699.50
MW-39	738.13	11/18/2020	NM	NM	NM	NM
MW-39	738.13	11/23/2020	37.85	38.95	1.10	699.98
MW-39	738.13	12/7/2020	ARP	ARP	ARP	ARP
MW-39	738.13	12/21/2020	ARP	ARP	ARP	ARP
MW-39	738.13	12/26/2020	30.20	30.31	0.11	707.90
MW-39	738.13	1/10/2021	ARP	ARP	ARP	ARP
MW-39	738.13	1/19/2021	ARP	ARP	ARP	ARP
MW-39	738.13	1/25/2021	ARP	ARP	ARP	ARP
MW-39	738.13	2/1/2021	39.66	39.95	0.29	698.39
MW-39	738.13	2/8/2021	NM	NM	NM	NM
MW-39	738.13	2/16/2021	NM	NM	NM	NM
MW-39	738.13	2/22/2021	NM	NM	NM	NM
MW-39	738.13	3/4/2021	ND	40.02	N/A	698.11
MW-39	738.13	3/8/2021	NM	NM	NM	NM
MW-39	738.13	3/15/2021	NM	NM	NM	NM

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-40	728.92	9/14/2020	ND	33.25	N/A	695.67
MW-40	728.92	9/18/2020	ND	33.21	N/A	695.71
MW-40	728.92	9/28/2020	ND	33.15	N/A	695.77
MW-40	728.92	10/3/2020	ND	33.22	N/A	695.70
MW-40	728.92	10/19/2020	ND	33.27	N/A	695.65
MW-40	728.92	10/26/2020	ND	33.32	N/A	695.60
MW-40	728.92	10/28/2020	ND	35.32	N/A	693.60
MW-40	728.92	11/9/2020	ND	33.47	N/A	695.45
MW-40	728.92	11/18/2020	ND	Dry	N/A	Dry
MW-40	728.92	11/23/2020	ND	34.57	N/A	694.35
MW-40	728.92	12/7/2020	ND	33.56	N/A	695.36
MW-40	728.92	12/21/2020	33.70	33.73	0.03	695.21
MW-40	728.92	12/26/2020	ND	33.85	N/A	695.07
MW-40	728.92	1/10/2021	ND	33.95	N/A	694.97
MW-40	728.92	1/19/2021	33.73	34.36	0.63	695.02
MW-40	728.92	1/25/2021	33.61	34.59	0.98	695.05
MW-40	728.92	2/1/2021	33.48	34.99	1.51	695.04
MW-40	728.92	2/8/2021	33.64	35.78	2.14	694.71
MW-40	728.92	2/16/2021	33.27	36.12	2.85	694.89
MW-40	728.92	2/22/2021	32.90	37.31	4.41	694.84
MW-40	728.92	3/4/2021	32.26	39.39	7.13	694.75
MW-40	728.92	3/8/2021	32.45	39.64	7.19	694.55
MW-40	728.92	3/11/2021	33.51	39.18	5.67	693.89
MW-40	728.92	3/15/2021	32.43	39.48	7.05	694.60

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-41	745.92	9/14/2020	ND	53.40	N/A	692.52
MW-41	745.92	9/18/2020	ND	53.40	N/A	692.52
MW-41	745.92	9/28/2020	ND	53.36	N/A	692.56
MW-41	745.92	10/3/2020	ND	53.49	N/A	692.43
MW-41	745.92	10/19/2020	ND	53.51	N/A	692.41
MW-41	745.92	10/26/2020	ND	53.49	N/A	692.43
MW-41	745.92	11/9/2020	ND	53.53	N/A	692.39
MW-41	745.92	11/18/2020	ND	53.63	N/A	692.29
MW-41	745.92	11/23/2020	ND	53.60	N/A	692.32
MW-41	745.92	12/7/2020	ND	53.54	N/A	692.38
MW-41	745.92	12/21/2020	ND	53.82	N/A	692.10
MW-41	745.92	12/26/2020	ND	53.77	N/A	692.15
MW-41	745.92	1/10/2021	ND	54.28	N/A	691.64
MW-41	745.92	1/19/2021	ND	54.35	N/A	691.57
MW-41	745.92	1/25/2021	ND	54.28	N/A	691.64
MW-41	745.92	2/1/2021	ND	54.22	N/A	691.70
MW-41	745.92	2/8/2021	ND	54.64	N/A	691.28
MW-41	745.92	2/16/2021	ND	54.20	N/A	691.72
MW-41	745.92	2/22/2021	ND	54.11	N/A	691.81
MW-41	745.92	3/4/2021	ND	54.09	N/A	691.83
MW-41	745.92	3/8/2021	ND	54.32	N/A	691.60
MW-41	745.92	3/15/2021	ND	54.50	N/A	691.42

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-42*	735.71	9/14/2020	ND	41.33	N/A	694.38
MW-42*	735.71	9/18/2020	ND	38.15	N/A	697.56
MW-42*	735.71	9/28/2020	ND	38.14	N/A	697.57
MW-42*	735.71	10/3/2020	ND	38.25	N/A	697.46
MW-42*	735.71	10/19/2020	ND	38.31	N/A	697.40
MW-42*	735.71	10/26/2020	ND	38.36	N/A	697.35
MW-42*	735.71	11/9/2020	ND	38.44	N/A	697.27
MW-42*	735.71	11/18/2020	ND	38.57	N/A	697.14
MW-42*	735.71	11/23/2020	ND	38.42	N/A	697.29
MW-42*	735.71	12/7/2020	ND	38.40	N/A	697.31
MW-42*	735.71	12/21/2020	ND	38.50	N/A	697.21
MW-42*	735.71	12/26/2020	ND	38.61	N/A	697.10
MW-42*	735.71	1/10/2021	ND	38.74	N/A	696.97
MW-42*	735.71	1/19/2021	ND	38.71	N/A	697.00
MW-42*	735.71	1/25/2021	ND	38.93	N/A	696.78
MW-42*	735.71	2/1/2021	ND	38.97	N/A	696.74
MW-42*	735.71	2/8/2021	ND	39.26	N/A	696.45
MW-42*	735.71	2/16/2021	ND	39.10	N/A	696.61
MW-42*	735.71	2/22/2021	ND	39.13	N/A	696.58
MW-42	732.48	3/4/2021	ND	39.05	N/A	693.43
MW-42	732.48	3/8/2021	ND	39.29	N/A	693.19
MW-42	732.48	3/15/2021	ND	39.53	N/A	692.95

**Table 3  
Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-43	729.80	9/14/2020	ND	38.27	N/A	691.53
MW-43	729.80	9/18/2020	ND	38.30	N/A	691.50
MW-43	729.80	9/28/2020	ND	38.33	N/A	691.47
MW-43	729.80	10/3/2020	ND	38.52	N/A	691.28
MW-43	729.80	10/19/2020	ND	38.49	N/A	691.31
MW-43	729.80	10/26/2020	ND	38.52	N/A	691.28
MW-43	729.80	11/9/2020	ND	38.49	N/A	691.31
MW-43	729.80	11/18/2020	ND	38.55	N/A	691.25
MW-43	729.80	11/23/2020	ND	39.51	N/A	690.29
MW-43	729.80	12/7/2020	ND	38.40	N/A	691.40
MW-43	729.80	12/21/2020	ND	38.50	N/A	691.30
MW-43	729.80	12/26/2020	ND	38.58	N/A	691.22
MW-43	729.80	1/10/2021	ND	38.60	N/A	691.20
MW-43	729.80	1/19/2021	ND	38.70	N/A	691.10
MW-43	729.80	1/25/2021	ND	48.67	N/A	681.13
MW-43	729.80	2/1/2021	ND	38.74	N/A	691.06
MW-43	729.80	2/8/2021	ND	39.01	N/A	690.79
MW-43	729.80	2/16/2021	ND	38.84	N/A	690.96
MW-43	729.80	2/22/2021	ND	38.78	N/A	691.02
MW-43	729.80	3/4/2021	ND	38.65	N/A	691.15
MW-43	729.80	3/8/2021	ND	38.84	N/A	690.96
MW-43	729.80	3/15/2021	ND	38.78	N/A	691.02

**Table 3  
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Colonial Pipeline Company  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-44	726.48	9/14/2020	ND	32.40	N/A	694.08
MW-44	726.48	9/18/2020	ND	32.53	N/A	693.95
MW-44	726.48	9/28/2020	ND	32.59	N/A	693.89
MW-44	726.48	10/3/2020	ND	32.64	N/A	693.84
MW-44	726.48	10/19/2020	ND	32.70	N/A	693.78
MW-44	726.48	10/21/2020	ND	34.70	N/A	691.78
MW-44	726.48	10/26/2020	ND	32.62	N/A	693.86
MW-44	726.48	11/9/2020	ND	32.67	N/A	693.81
MW-44	726.48	11/18/2020	ND	32.68	N/A	693.80
MW-44	726.48	11/23/2020	NM	NM	NM	NM
MW-44	726.48	12/7/2020	ND	32.50	N/A	693.98
MW-44	726.48	12/21/2020	ND	32.50	N/A	693.98
MW-44	726.48	12/26/2020	ND	32.50	N/A	693.98
MW-44	726.48	1/10/2021	ND	32.41	N/A	694.07
MW-44	726.48	1/19/2021	ND	32.35	N/A	694.13
MW-44	726.48	1/25/2021	ND	32.25	N/A	694.23
MW-44	726.48	2/1/2021	ND	32.18	N/A	694.30
MW-44	726.48	2/8/2021	ND	32.18	N/A	694.30
MW-44	726.48	2/16/2021	ND	32.18	N/A	694.30
MW-44	726.48	2/22/2021	ND	32.10	N/A	694.38
MW-44	726.48	3/4/2021	ND	31.96	N/A	694.52
MW-44	726.48	3/8/2021	ND	32.00	N/A	694.48
MW-44	726.48	3/15/2021	ND	31.88	N/A	694.60

**Table 3  
Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-45	729.41	9/14/2020	ND	35.28	N/A	694.13
MW-45	729.41	9/18/2020	ND	35.21	N/A	694.20
MW-45	729.41	9/28/2020	ND	35.29	N/A	694.12
MW-45	729.41	10/3/2020	ND	35.40	N/A	694.01
MW-45	729.41	10/19/2020	ND	35.38	N/A	694.03
MW-45	729.41	10/26/2020	ND	35.39	N/A	694.02
MW-45	729.41	11/9/2020	ND	35.37	N/A	694.04
MW-45	729.41	11/18/2020	ND	35.41	N/A	694.00
MW-45	729.41	11/23/2020	ND	35.27	N/A	694.14
MW-45	729.41	12/7/2020	ND	35.19	N/A	694.22
MW-45	729.41	12/21/2020	ND	35.24	N/A	694.17
MW-45	729.41	12/26/2020	ND	35.34	N/A	694.07
MW-45	729.41	1/10/2021	ND	35.35	N/A	694.06
MW-45	729.41	1/19/2021	ND	35.34	N/A	694.07
MW-45	729.41	1/25/2021	ND	35.18	N/A	694.23
MW-45	729.41	2/1/2021	ND	35.29	N/A	694.12
MW-45	729.41	2/8/2021	ND	35.59	N/A	693.82
MW-45	729.41	2/16/2021	ND	35.46	N/A	693.95
MW-45	729.41	2/22/2021	ND	35.32	N/A	694.09
MW-45	729.41	3/4/2021	ND	35.29	N/A	694.12
MW-45	729.41	3/8/2021	ND	35.36	N/A	694.05
MW-45	729.41	3/15/2021	ND	35.36	N/A	694.05

**Table 3**  
**Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-46	726.73	9/14/2020	ND	31.63	N/A	695.10
MW-46	726.73	9/18/2020	ND	31.63	N/A	695.10
MW-46	726.73	9/28/2020	ND	31.71	N/A	695.02
MW-46	726.73	10/3/2020	ND	31.82	N/A	694.91
MW-46	726.73	10/19/2020	ND	31.89	N/A	694.84
MW-46	726.73	10/26/2020	ND	31.88	N/A	694.85
MW-46	726.73	11/9/2020	ND	31.88	N/A	694.85
MW-46	726.73	11/18/2020	ND	31.91	N/A	694.82
MW-46	726.73	11/23/2020	ND	31.82	N/A	694.91
MW-46	726.73	12/7/2020	ND	31.71	N/A	695.02
MW-46	726.73	12/21/2020	ND	31.77	N/A	694.96
MW-46	726.73	12/26/2020	ND	31.85	N/A	694.88
MW-46	726.73	1/10/2021	ND	31.83	N/A	694.90
MW-46	726.73	1/19/2021	ND	31.81	N/A	694.92
MW-46	726.73	1/25/2021	ND	31.62	N/A	695.11
MW-46	726.73	2/1/2021	ND	31.67	N/A	695.06
MW-46	726.73	2/8/2021	ND	31.98	N/A	694.75
MW-46	726.73	2/16/2021	ND	31.91	N/A	694.82
MW-46	726.73	2/22/2021	ND	31.83	N/A	694.90
MW-46	726.73	3/4/2021	ND	32.05	N/A	694.68
MW-46	726.73	3/8/2021	ND	32.27	N/A	694.46
MW-46	726.73	3/15/2021	ND	32.28	N/A	694.45

**Table 3  
Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-47*	726.77	9/14/2020	ND	30.88	N/A	695.89
MW-47*	726.77	9/18/2020	ND	30.75	N/A	696.02
MW-47*	726.77	9/28/2020	ND	30.74	N/A	696.03
MW-47*	726.77	10/3/2020	30.54	30.88	0.34	696.14
MW-47*	726.77	10/19/2020	25.61	27.85	2.24	700.56
MW-47*	726.77	11/9/2020	25.51	27.78	2.27	700.65
MW-47*	726.77	11/18/2020	ARP	ARP	ARP	ARP
MW-47*	726.77	11/23/2020	25.51	27.75	2.24	700.66
MW-47*	726.77	12/7/2020	ARP	ARP	ARP	ARP
MW-47*	726.77	12/21/2020	ARP	ARP	ARP	ARP
MW-47*	726.77	12/26/2020	25.58	27.80	2.22	700.60
MW-47*	726.77	1/10/2021	ARP	ARP	ARP	ARP
MW-47*	726.77	1/19/2021	ARP	ARP	ARP	ARP
MW-47*	726.77	1/25/2021	ARP	ARP	ARP	ARP
MW-47*	726.77	2/1/2021	25.46	27.68	2.22	700.72
MW-47*	726.77	2/8/2021	NM	NM	NM	NM
MW-47*	726.77	2/16/2021	NM	NM	NM	NM
MW-47*	726.77	2/22/2021	NM	NM	NM	NM
MW-47	723.18	3/4/2021	26.41	27.72	1.31	696.42
MW-47	723.18	3/8/2021	NM	NM	NM	NM
MW-47	723.18	3/15/2021	NM	NM	NM	NM

**Table 3  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-48*	723.09	9/18/2020	ND	33.44	N/A	689.65
MW-48*	723.09	9/28/2020	ND	33.38	N/A	689.71
MW-48*	723.09	10/3/2020	ND	33.57	N/A	689.52
MW-48*	723.09	10/19/2020	ND	33.63	N/A	689.46
MW-48*	723.09	10/26/2020	ND	33.65	N/A	689.44
MW-48*	723.09	11/9/2020	ND	33.58	N/A	689.51
MW-48*	723.09	11/18/2020	ND	33.64	N/A	689.45
MW-48*	723.09	11/23/2020	ND	33.56	N/A	689.53
MW-48*	723.09	12/7/2020	33.30	33.70	0.40	689.68
MW-48*	723.09	12/21/2020	ARP	ARP	ARP	ARP
MW-48*	723.09	12/26/2020	33.79	34.51	0.72	689.10
MW-48*	723.09	1/10/2021	ARP	ARP	ARP	ARP
MW-48*	723.09	1/19/2021	ARP	ARP	ARP	ARP
MW-48*	723.09	1/25/2021	ARP	ARP	ARP	ARP
MW-48*	723.09	2/1/2021	32.85	38.05	5.20	688.85
MW-48*	723.09	2/8/2021	NM	NM	NM	NM
MW-48*	723.09	2/16/2021	NM	NM	NM	NM
MW-48*	723.09	2/22/2021	NM	NM	NM	NM
MW-48	723.57	3/4/2021	33.73	34.80	1.07	689.55
MW-48	723.57	3/15/2021	NM	NM	NM	NM
MW-49	727.58	9/18/2020	ND	32.29	N/A	695.29
MW-49	727.58	9/28/2020	ND	33.63	N/A	693.95
MW-49	727.58	10/3/2020	ND	33.75	N/A	693.83
MW-49	727.58	10/19/2020	ND	33.73	N/A	693.85
MW-49	727.58	10/26/2020	ND	33.76	N/A	693.82
MW-49	727.58	11/9/2020	ND	33.69	N/A	693.89
MW-49	727.58	11/18/2020	ND	33.70	N/A	693.88
MW-49	727.58	11/23/2020	ND	33.55	N/A	694.03
MW-49	727.58	12/7/2020	ND	33.45	N/A	694.13
MW-49	727.58	12/21/2020	ND	33.49	N/A	694.09
MW-49	727.58	12/26/2020	ND	33.57	N/A	694.01
MW-49	727.58	1/10/2021	ND	33.53	N/A	694.05
MW-49	727.58	1/19/2021	ND	33.51	N/A	694.07
MW-49	727.58	1/25/2021	ND	33.34	N/A	694.24
MW-49	727.58	2/1/2021	ND	33.42	N/A	694.16
MW-49	727.58	2/8/2021	ND	33.65	N/A	693.93
MW-49	727.58	2/16/2021	ND	33.52	N/A	694.06
MW-49	727.58	2/22/2021	ND	33.37	N/A	694.21
MW-49	727.58	3/4/2021	ND	33.28	N/A	694.30
MW-49	727.58	3/8/2021	ND	33.36	N/A	694.22
MW-49	727.58	3/15/2021	ND	33.33	N/A	694.25

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-50	731.14	9/18/2020	ND	35.04	N/A	696.10
MW-50	731.14	9/28/2020	ND	36.74	N/A	694.40
MW-50	731.14	10/3/2020	ND	36.85	N/A	694.29
MW-50	731.14	10/19/2020	ND	36.88	N/A	694.26
MW-50	731.14	10/26/2020	ND	36.94	N/A	694.20
MW-50	731.14	11/9/2020	ND	36.90	N/A	694.24
MW-50	731.14	11/18/2020	ND	36.99	N/A	694.15
MW-50	731.14	11/23/2020	ND	36.86	N/A	694.28
MW-50	731.14	12/7/2020	ND	36.81	N/A	694.33
MW-50	731.14	12/21/2020	ND	36.84	N/A	694.30
MW-50	731.14	12/26/2020	ND	36.95	N/A	694.19
MW-50	731.14	1/10/2021	ND	36.95	N/A	694.19
MW-50	731.14	1/19/2021	ND	36.95	N/A	694.19
MW-50	731.14	1/25/2021	ND	36.92	N/A	694.22
MW-50	731.14	2/1/2021	ND	36.91	N/A	694.23
MW-50	731.14	2/8/2021	ND	37.67	N/A	693.47
MW-50	731.14	2/16/2021	ND	37.58	N/A	693.56
MW-50	731.14	2/22/2021	ND	37.34	N/A	693.80
MW-50	731.14	3/4/2021	ND	37.19	N/A	693.95
MW-50	731.14	3/8/2021	ND	37.20	N/A	693.94
MW-50	731.14	3/15/2021	ND	37.47	N/A	693.67

**Table 3  
Summary of Monitoring Well Gauging Data**

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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-51	731.20	9/18/2020	ND	31.34	N/A	699.86
MW-51	731.20	9/28/2020	ND	37.08	N/A	694.12
MW-51	731.20	10/3/2020	ND	37.18	N/A	694.02
MW-51	731.20	10/19/2020	ND	37.18	N/A	694.02
MW-51	731.20	10/26/2020	ND	37.19	N/A	694.01
MW-51	731.20	11/9/2020	ND	37.18	N/A	694.02
MW-51	731.20	11/18/2020	ND	37.27	N/A	693.93
MW-51	731.20	11/23/2020	ND	37.10	N/A	694.10
MW-51	731.20	12/7/2020	ND	37.03	N/A	694.17
MW-51	731.20	12/21/2020	ND	37.08	N/A	694.12
MW-51	731.20	12/26/2020	ND	37.18	N/A	694.02
MW-51	731.20	1/10/2021	ND	37.20	N/A	694.00
MW-51	731.20	1/19/2021	ND	37.19	N/A	694.01
MW-51	731.20	1/25/2021	ND	37.07	N/A	694.13
MW-51	731.20	2/1/2021	ND	37.16	N/A	694.04
MW-51	731.20	2/8/2021	ND	37.51	N/A	693.69
MW-51	731.20	2/16/2021	ND	37.38	N/A	693.82
MW-51	731.20	2/22/2021	ND	37.29	N/A	693.91
MW-51	731.20	3/4/2021	ND	37.22	N/A	693.98
MW-51	731.20	3/8/2021	ND	37.31	N/A	693.89
MW-51	731.20	3/15/2021	nd	37.31	N/A	693.89
MW-52	722.94	10/3/2020	ND	33.48	N/A	689.46
MW-52	722.94	10/19/2020	ND	33.56	N/A	689.38
MW-52	722.94	10/21/2020	ND	35.56	N/A	687.38
MW-52	722.94	10/26/2020	ND	33.60	N/A	689.34
MW-52	722.94	11/9/2020	ND	33.52	N/A	689.42
MW-52	722.94	11/18/2020	ND	33.59	N/A	689.35
MW-52	722.94	11/23/2020	ND	33.51	N/A	689.43
MW-52	722.94	12/7/2020	ND	33.36	N/A	689.58
MW-52	722.94	12/21/2020	ND	33.54	N/A	689.40
MW-52	722.94	12/26/2020	ND	33.49	N/A	689.45
MW-52	722.94	1/10/2021	ND	33.58	N/A	689.36
MW-52	722.94	1/19/2021	ND	33.89	N/A	689.05
MW-52	722.94	1/25/2021	ND	33.83	N/A	689.11
MW-52	722.94	2/1/2021	ND	33.72	N/A	689.22
MW-52	722.94	2/8/2021	ND	34.31	N/A	688.63
MW-52	722.94	2/16/2021	ND	33.91	N/A	689.03
MW-52	722.94	2/22/2021	ND	33.83	N/A	689.11
MW-52	722.94	3/4/2021	ND	33.44	N/A	689.50
MW-52	722.94	3/8/2021	ND	33.78	N/A	689.16
MW-52	722.94	3/15/2021	ND	33.78	N/A	689.16

**Table 3  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-53	707.49	10/3/2020	ND	29.76	N/A	677.73
MW-53	707.49	10/19/2020	ND	25.59	N/A	681.90
MW-53	707.49	10/26/2020	ND	25.51	N/A	681.98
MW-53	707.49	11/9/2020	ND	25.40	N/A	682.09
MW-53	707.49	11/18/2020	ND	25.20	N/A	682.29
MW-53	707.49	11/23/2020	ND	25.07	N/A	682.42
MW-53	707.49	12/7/2020	ND	24.86	N/A	682.63
MW-53	707.49	12/21/2020	ND	24.78	N/A	682.71
MW-53	707.49	12/26/2020	ND	27.74	N/A	679.75
MW-53	707.49	1/10/2021	ND	24.70	N/A	682.79
MW-53	707.49	1/19/2021	ND	25.10	N/A	682.39
MW-53	707.49	1/25/2021	ND	25.27	N/A	682.22
MW-53	707.49	2/1/2021	ND	25.20	N/A	682.29
MW-53	707.49	2/8/2021	ND	25.36	N/A	682.13
MW-53	707.49	2/16/2021	ND	24.86	N/A	682.63
MW-53	707.49	2/22/2021	ND	24.32	N/A	683.17
MW-53	707.49	3/4/2021	ND	24.14	N/A	683.35
MW-53	707.49	3/8/2021	ND	24.48	N/A	683.01
MW-53	707.49	3/15/2021	ND	24.56	N/A	682.93
MW-54	707.97	10/3/2020	ND	25.60	N/A	682.37
MW-54	707.97	10/19/2020	ND	25.41	N/A	682.56
MW-54	707.97	10/26/2020	ND	25.35	N/A	682.62
MW-54	707.97	11/9/2020	ND	25.26	N/A	682.71
MW-54	707.97	11/18/2020	ND	25.16	N/A	682.81
MW-54	707.97	11/23/2020	ND	25.06	N/A	682.91
MW-54	707.97	12/7/2020	ND	24.79	N/A	683.18
MW-54	707.97	12/21/2020	ND	24.74	N/A	683.23
MW-54	707.97	12/26/2020	ND	24.74	N/A	683.23
MW-54	707.97	1/10/2021	ND	24.61	N/A	683.36
MW-54	707.97	1/19/2021	ND	24.96	N/A	683.01
MW-54	707.97	1/25/2021	ND	25.08	N/A	682.89
MW-54	707.97	2/1/2021	ND	25.08	N/A	682.89
MW-54	707.97	2/8/2021	ND	25.27	N/A	682.70
MW-54	707.97	2/16/2021	ND	24.82	N/A	683.15
MW-54	707.97	2/22/2021	ND	24.41	N/A	683.56
MW-54	707.97	3/4/2021	ND	24.07	N/A	683.90
MW-54	707.97	3/8/2021	ND	24.43	N/A	683.54
MW-54	707.97	3/15/2021	ND	24.45	N/A	683.52

**Table 3  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-55*	745.50	10/3/2020	ND	55.30	N/A	690.20
MW-55*	745.50	10/19/2020	ND	53.23	N/A	692.27
MW-55*	745.50	10/26/2020	ND	53.20	N/A	692.30
MW-55*	745.50	11/9/2020	ND	53.28	N/A	692.22
MW-55*	745.50	11/18/2020	ND	53.63	N/A	691.87
MW-55*	745.50	11/23/2020	ND	53.29	N/A	692.21
MW-55*	745.50	12/7/2020	ARP	ARP	ARP	ARP
MW-55*	745.50	12/21/2020	ARP	ARP	ARP	ARP
MW-55*	745.50	12/26/2020	51.17	53.54	2.37	693.70
MW-55*	745.50	1/10/2021	ARP	ARP	ARP	ARP
MW-55*	745.50	1/19/2021	ARP	ARP	ARP	ARP
MW-55*	745.50	1/25/2021	ARP	ARP	ARP	ARP
MW-55*	745.50	2/1/2021	51.41	54.29	2.88	693.32
MW-55*	745.50	2/8/2021	NM	NM	NM	NM
MW-55*	745.50	2/16/2021	NM	NM	NM	NM
MW-55*	745.50	2/22/2021	NM	NM	NM	NM
MW-55	743.95	3/4/2021	51.43	54.04	2.61	691.82
MW-55	743.95	3/15/2021	NM	NM	NM	NM
MW-56	681.53	10/3/2020	ND	12.27	N/A	669.26
MW-56	681.53	10/19/2020	ND	11.86	N/A	669.67
MW-56	681.53	10/26/2020	ND	11.76	N/A	669.77
MW-56	681.53	11/9/2020	ND	11.36	N/A	670.17
MW-56	681.53	11/18/2020	ND	11.11	N/A	670.42
MW-56	681.53	11/23/2020	ND	10.95	N/A	670.58
MW-56	681.53	12/7/2020	ND	10.49	N/A	671.04
MW-56	681.53	12/21/2020	ND	10.16	N/A	671.37
MW-56	681.53	12/26/2020	ND	10.30	N/A	671.23
MW-56	681.53	1/10/2021	ND	10.04	N/A	671.49
MW-56	681.53	1/19/2021	ND	10.03	N/A	671.50
MW-56	681.53	1/25/2021	ND	9.82	N/A	671.71
MW-56	681.53	2/1/2021	ND	9.33	N/A	672.20
MW-56	681.53	2/8/2021	ND	9.68	N/A	671.85
MW-56	681.53	2/16/2021	ND	8.94	N/A	672.59
MW-56	681.53	2/22/2021	ND	5.72	N/A	675.81
MW-56	681.53	3/4/2021	ND	8.62	N/A	672.91
MW-56	681.53	3/8/2021	ND	8.99	N/A	672.54
MW-56	681.53	3/15/2021	ND	9.04	N/A	672.49

**Table 3  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-57	687.07	10/3/2020	ND	13.71	N/A	673.36
MW-57	687.07	10/19/2020	ND	13.11	N/A	673.96
MW-57	687.07	10/26/2020	ND	13.05	N/A	674.02
MW-57	687.07	11/9/2020	ND	12.20	N/A	674.87
MW-57	687.07	11/18/2020	ND	12.25	N/A	674.82
MW-57	687.07	11/23/2020	ND	12.19	N/A	674.88
MW-57	687.07	12/7/2020	ND	11.64	N/A	675.43
MW-57	687.07	12/21/2020	ND	11.26	N/A	675.81
MW-57	687.07	12/26/2020	ND	11.20	N/A	675.87
MW-57	687.07	1/10/2021	ND	10.91	N/A	676.16
MW-57	687.07	1/19/2021	ND	10.96	N/A	676.11
MW-57	687.07	1/25/2021	ND	10.83	N/A	676.24
MW-57	687.07	2/1/2021	ND	10.21	N/A	676.86
MW-57	687.07	2/8/2021	ND	10.32	N/A	676.75
MW-57	687.07	2/16/2021	ND	9.53	N/A	677.54
MW-57	687.07	2/22/2021	ND	6.29	N/A	680.78
MW-57	687.07	3/4/2021	ND	9.12	N/A	677.95
MW-57	687.07	3/8/2021	ND	9.46	N/A	677.61
MW-57	687.07	3/15/2021	ND	9.49	N/A	677.58
MW-58	717.30	10/3/2020	ND	29.77	N/A	687.53
MW-58	717.30	10/19/2020	ND	29.78	N/A	687.52
MW-58	717.30	10/26/2020	ND	29.74	N/A	687.56
MW-58	717.30	11/9/2020	ND	29.60	N/A	687.70
MW-58	717.30	11/18/2020	ND	29.59	N/A	687.71
MW-58	717.30	11/23/2020	ND	29.54	N/A	687.76
MW-58	717.30	12/7/2020	ND	29.28	N/A	688.02
MW-58	717.30	12/21/2020	ND	29.23	N/A	688.07
MW-58	717.30	12/26/2020	ND	29.31	N/A	687.99
MW-58	717.30	1/10/2021	ND	29.09	N/A	688.21
MW-58	717.30	1/19/2021	ND	29.03	N/A	688.27
MW-58	717.30	1/25/2021	ND	28.88	N/A	688.42
MW-58	717.30	2/1/2021	ND	28.83	N/A	688.47
MW-58	717.30	2/8/2021	ND	28.99	N/A	688.31
MW-58	717.30	2/16/2021	ND	28.78	N/A	688.52
MW-58	717.30	2/22/2021	ND	28.65	N/A	688.65
MW-58	717.30	3/4/2021	ND	28.48	N/A	688.82
MW-58	717.30	3/8/2021	ND	28.62	N/A	688.68
MW-58	717.30	3/15/2021	ND	28.48	N/A	688.82

**Table 3  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-59	719.38	10/3/2020	ND	31.26	N/A	688.12
MW-59	719.38	10/19/2020	ND	31.19	N/A	688.19
MW-59	719.38	10/26/2020	ND	31.18	N/A	688.20
MW-59	719.38	10/28/2020	ND	33.18	N/A	686.20
MW-59	719.38	11/9/2020	ND	31.03	N/A	688.35
MW-59	719.38	11/18/2020	ND	31.05	N/A	688.33
MW-59	719.38	11/23/2020	ND	30.99	N/A	688.39
MW-59	719.38	12/7/2020	ND	30.76	N/A	688.62
MW-59	719.38	12/21/2020	ND	37.80	N/A	681.58
MW-59	719.38	12/26/2020	ND	30.83	N/A	688.55
MW-59	719.38	1/10/2021	ND	30.68	N/A	688.70
MW-59	719.38	1/19/2021	ND	30.70	N/A	688.68
MW-59	719.38	1/25/2021	ND	30.61	N/A	688.77
MW-59	719.38	2/1/2021	ND	30.57	N/A	688.81
MW-59	719.38	2/8/2021	ND	30.78	N/A	688.60
MW-59	719.38	2/16/2021	ND	30.55	N/A	688.83
MW-59	719.38	2/22/2021	ND	30.43	N/A	688.95
MW-59	719.38	3/4/2021	ND	30.25	N/A	689.13
MW-59	719.38	3/8/2021	ND	30.36	N/A	689.02
MW-59	719.38	3/15/2021	ND	30.24	N/A	689.14
MW-60	726.76	1/10/2020	ND	32.99	N/A	693.77
MW-60	726.76	10/8/2020	ND	33.60	N/A	693.16
MW-60	726.76	10/19/2020	ND	33.62	N/A	693.14
MW-60	726.76	10/26/2020	ND	33.58	N/A	693.18
MW-60	726.76	11/9/2020	ND	33.49	N/A	693.27
MW-60	726.76	11/18/2020	ND	33.48	N/A	693.28
MW-60	726.76	11/23/2020	ND	33.33	N/A	693.43
MW-60	726.76	12/7/2020	ND	33.11	N/A	693.65
MW-60	726.76	12/21/2020	ND	33.07	N/A	693.69
MW-60	726.76	12/26/2020	ND	33.08	N/A	693.68
MW-60	726.76	1/19/2021	ND	32.90	N/A	693.86
MW-60	726.76	1/25/2021	ND	32.62	N/A	694.14
MW-60	726.76	2/1/2021	ND	32.64	N/A	694.12
MW-60	726.76	2/8/2021	ND	32.78	N/A	693.98
MW-60	726.76	2/16/2021	ND	32.58	N/A	694.18
MW-60	726.76	2/22/2021	ND	32.30	N/A	694.46
MW-60	726.76	3/4/2021	ND	32.14	N/A	694.62
MW-60	726.76	3/8/2021	ND	32.08	N/A	694.68
MW-60	726.76	3/15/2021	ND	32.07	N/A	694.69

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-61	746.57	11/9/2020	ND	52.13	N/A	694.44
MW-61	746.57	11/18/2020	ND	NM	N/A	NM
MW-61	746.57	11/23/2020	ND	54.01	N/A	692.56
MW-61	746.57	12/7/2020	ND	54.29	N/A	692.28
MW-61	746.57	12/21/2020	ARP	ARP	ARP	ARP
MW-61	746.57	12/26/2020	54.43	54.96	0.53	692.00
MW-61	746.57	1/10/2021	ARP	ARP	ARP	ARP
MW-61	746.57	1/19/2021	ARP	ARP	ARP	ARP
MW-61	746.57	1/25/2021	ARP	ARP	ARP	ARP
MW-61	746.57	2/1/2021	54.76	55.03	0.27	691.73
MW-61	746.57	2/8/2021	NM	NM	NM	NM
MW-61	746.57	2/16/2021	NM	NM	NM	NM
MW-61	746.57	2/22/2021	NM	NM	NM	NM
MW-61	746.57	3/4/2021	54.61	55.37	0.76	691.76
MW-61	746.57	3/8/2021	NM	NM	NM	NM
MW-61	746.57	3/15/2021	NM	NM	NM	NM
MW-62	729.79	11/23/2020	NM	NM	NM	NM
MW-62	729.79	12/7/2020	ND	36.95	N/A	692.84
MW-62	729.79	12/21/2020	ND	36.91	N/A	692.88
MW-62	729.79	12/26/2020	ND	36.98	N/A	692.81
MW-62	729.79	1/10/2021	ND	36.85	N/A	692.94
MW-62	729.79	1/19/2021	ND	36.76	N/A	693.03
MW-62	729.79	1/25/2021	ND	36.54	N/A	693.25
MW-62	729.79	2/1/2021	ND	36.54	N/A	693.25
MW-62	729.79	2/8/2021	ND	36.61	N/A	693.18
MW-62	729.79	2/16/2021	ND	36.45	N/A	693.34
MW-62	729.79	2/22/2021	ND	36.31	N/A	693.48
MW-62	729.79	3/4/2021	ND	36.13	N/A	693.66
MW-62	729.79	3/8/2021	ND	36.16	N/A	693.63
MW-62	729.79	3/15/2021	ND	36.00	N/A	693.79

**Table 3  
Summary of Monitoring Well Gauging Data**

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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-63	725.76	11/23/2020	ND	39.44	N/A	686.32
MW-63	725.76	12/7/2020	ND	39.37	N/A	686.39
MW-63	725.76	12/21/2020	ND	39.70	N/A	686.06
MW-63	725.76	12/26/2020	ND	39.69	N/A	686.07
MW-63	725.76	1/10/2021	ND	39.95	N/A	685.81
MW-63	725.76	1/19/2021	ND	40.83	N/A	684.93
MW-63	725.76	1/25/2021	ND	40.88	N/A	684.88
MW-63	725.76	2/1/2021	ND	40.82	N/A	684.94
MW-63	725.76	2/8/2021	ND	41.24	N/A	684.52
MW-63	725.76	2/16/2021	ND	40.90	N/A	684.86
MW-63	725.76	2/22/2021	ND	40.85	N/A	684.91
MW-63	725.76	3/4/2021	ND	40.54	N/A	685.22
MW-63	725.76	3/8/2021	ND	40.70	N/A	685.06
MW-63	725.76	3/15/2021	ND	40.73	N/A	685.03
MW-64	730.39	12/26/2020	ND	38.24	N/A	692.59
MW-64	730.39	1/10/2021	ND	38.30	N/A	692.53
MW-64	730.39	1/19/2021	ND	38.24	N/A	692.59
MW-64	730.39	1/25/2021	ND	38.18	N/A	692.65
MW-64	730.39	2/1/2021	ND	38.24	N/A	692.15
MW-64	730.39	2/8/2021	ND	38.39	N/A	692.00
MW-64	730.39	2/16/2021	ND	38.19	N/A	692.20
MW-64	730.39	2/22/2021	ND	38.14	N/A	692.25
MW-64	730.39	3/4/2021	ND	38.14	N/A	692.25
MW-64	730.39	3/8/2021	ND	38.23	N/A	692.16
MW-64	730.39	3/15/2021	ND	38.12	N/A	692.27
MW-65	714.46	12/26/2020	ND	23.38	N/A	691.08
MW-65	714.46	1/10/2021	ND	23.17	N/A	691.29
MW-65	714.46	1/19/2021	ND	23.11	N/A	691.35
MW-65	714.46	1/25/2021	ND	23.08	N/A	691.38
MW-65	714.46	2/1/2021	ND	23.06	N/A	691.40
MW-65	714.46	2/8/2021	ND	23.08	N/A	691.38
MW-65	714.46	2/16/2021	ND	22.89	N/A	691.57
MW-65	714.46	2/22/2021	ND	22.68	N/A	691.78
MW-65	714.46	3/4/2021	ND	22.45	N/A	692.01
MW-65	714.46	3/8/2021	ND	22.48	N/A	691.98
MW-65	714.46	3/15/2021	ND	22.36	N/A	692.10

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-66	731.43	12/26/2020	ND	40.59	N/A	690.84
MW-66	731.43	1/10/2021	ND	38.40	N/A	693.03
MW-66	731.43	1/19/2021	ND	38.36	N/A	693.07
MW-66	731.43	1/25/2021	ND	28.38	N/A	703.05
MW-66	731.43	2/1/2021	ND	38.48	N/A	692.95
MW-66	731.43	2/8/2021	ND	38.69	N/A	692.74
MW-66	731.43	2/16/2021	ND	38.49	N/A	692.94
MW-66	731.43	2/22/2021	ND	38.46	N/A	692.97
MW-66	731.43	3/4/2021	ND	38.43	N/A	693.00
MW-66	731.43	3/8/2021	ND	38.54	N/A	692.89
MW-66	731.43	3/15/2021	ND	38.50	N/A	692.93
MW-67	724.32	12/26/2020	ND	32.06	N/A	692.26
MW-67	724.32	1/10/2021	ND	30.96	N/A	693.36
MW-67	724.32	1/19/2021	ND	30.93	N/A	693.39
MW-67	724.32	1/25/2021	ND	30.93	N/A	693.39
MW-67	724.32	2/1/2021	ND	31.02	N/A	693.30
MW-67	724.32	2/8/2021	ND	31.20	N/A	693.12
MW-67	724.32	2/16/2021	ND	31.06	N/A	693.26
MW-67	724.32	2/22/2021	ND	31.00	N/A	693.32
MW-67	724.32	3/4/2021	ND	30.98	N/A	693.34
MW-67	724.32	3/8/2021	ND	31.07	N/A	693.25
MW-67	724.32	3/15/2021	ND	31.02	N/A	693.30
MW-68	731.84	12/26/2020	ND	38.03	N/A	693.81
MW-68	731.84	1/10/2021	ND	38.12	N/A	693.72
MW-68	731.84	1/19/2021	ND	38.09	N/A	693.75
MW-68	731.84	1/25/2021	ND	28.22	N/A	703.62
MW-68	731.84	2/1/2021	ND	38.28	N/A	693.56
MW-68	731.84	2/8/2021	ND	38.55	N/A	693.29
MW-68	731.84	2/16/2021	ND	38.38	N/A	693.46
MW-68	731.84	2/22/2021	ND	38.30	N/A	693.54
MW-68	731.84	3/4/2021	ND	38.28	N/A	693.56
MW-68	731.84	3/8/2021	ND	38.47	N/A	693.37
MW-68	731.84	3/15/2021	ND	38.60	N/A	693.24

**Table 3  
Summary of Monitoring Well Gauging Data**

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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-69	741.74	12/26/2020	ND	49.96	N/A	691.78
MW-69	741.74	1/10/2021	ND	49.70	N/A	692.04
MW-69	741.74	1/19/2021	ND	50.19	N/A	691.55
MW-69	741.74	1/25/2021	ND	50.17	N/A	691.57
MW-69	741.74	2/1/2021	ND	50.18	N/A	691.56
MW-69	741.74	2/8/2021	ND	50.44	N/A	691.30
MW-69	741.74	2/16/2021	ND	50.12	N/A	691.62
MW-69	741.74	2/22/2021	ND	50.13	N/A	691.61
MW-69	741.74	3/4/2021	ND	50.14	N/A	691.60
MW-69	741.74	3/8/2021	ND	50.29	N/A	691.45
MW-69	741.74	3/15/2021	ND	50.25	N/A	691.49
MW-70	728.08	12/26/2020	ND	35.82	N/A	692.26
MW-70	728.08	1/10/2021	ND	35.83	N/A	692.25
MW-70	728.08	1/19/2021	ND	35.86	N/A	692.22
MW-70	728.08	1/25/2021	ND	35.82	N/A	692.26
MW-70	728.08	2/1/2021	ND	35.85	N/A	692.23
MW-70	728.08	2/8/2021	ND	36.01	N/A	692.07
MW-70	728.08	2/16/2021	ND	35.82	N/A	692.26
MW-70	728.08	2/22/2021	ND	35.79	N/A	692.29
MW-70	728.08	3/4/2021	ND	35.76	N/A	692.32
MW-70	728.08	3/8/2021	ND	35.85	N/A	692.23
MW-70	728.08	3/15/2021	ND	35.75	N/A	692.33
MW-71	746.97	1/19/2021	ND	52.15	N/A	694.82
MW-71	746.97	1/25/2021	ND	55.34	N/A	691.63
MW-71	746.97	2/1/2021	ND	55.33	N/A	691.64
MW-71	746.97	2/8/2021	ND	55.61	N/A	691.36
MW-71	746.97	2/16/2021	ND	55.31	N/A	691.66
MW-71	746.97	2/22/2021	ND	55.25	N/A	691.72
MW-71	746.97	3/4/2021	ND	55.26	N/A	691.71
MW-71	746.97	3/8/2021	ND	55.40	N/A	691.57
MW-71	746.97	3/15/2021	ND	55.42	N/A	691.55
MW-72	734.81	1/19/2021	ND	43.87	N/A	690.94
MW-72	734.81	1/25/2021	ND	45.33	N/A	689.48
MW-72	734.81	2/1/2021	ND	45.43	N/A	689.38
MW-72	734.81	2/8/2021	ND	45.64	N/A	689.17
MW-72	734.81	2/16/2021	ND	45.53	N/A	689.28
MW-72	734.81	2/22/2021	ND	45.43	N/A	689.38
MW-72	734.81	3/4/2021	ND	45.45	N/A	689.36
MW-72	734.81	3/8/2021	ND	45.58	N/A	689.23
MW-72	734.81	3/15/2021	ND	45.53	N/A	689.28

**Table 3  
Summary of Monitoring Well Gauging Data**

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<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-73	726.44	1/25/2021	ND	32.67	N/A	693.77
MW-73	726.44	2/1/2021	ND	32.68	N/A	693.76
MW-73	726.44	2/8/2021	ND	32.75	N/A	693.69
MW-73	726.44	2/16/2021	ND	32.54	N/A	693.90
MW-73	726.44	2/22/2021	ND	32.17	N/A	694.27
MW-73	726.44	3/4/2021	ND	31.94	N/A	694.50
MW-73	726.44	3/8/2021	ND	31.99	N/A	694.45
MW-73	726.44	3/15/2021	ND	31.86	N/A	694.58
MW-74	713.48	2/16/2021	ND	20.72	N/A	692.76
MW-74	713.48	2/22/2021	ND	20.44	N/A	693.04
MW-74	713.48	3/4/2021	ND	20.26	N/A	693.22
MW-74	713.48	3/8/2021	ND	20.37	N/A	693.11
MW-74	713.48	3/15/2021	ND	20.25	N/A	693.23
MW-75	730.05	2/16/2021	ND	37.92	N/A	692.13
MW-75	730.05	2/22/2021	ND	37.88	N/A	692.17
MW-75	730.05	3/4/2021	ND	37.86	N/A	692.19
MW-75	730.05	3/8/2021	ND	37.97	N/A	692.08
MW-75	730.05	3/15/2021	ND	37.88	N/A	692.17
MW-76	723.94	2/16/2021	ND	29.60	N/A	694.34
MW-76	723.94	2/22/2021	ND	29.21	N/A	694.73
MW-76	723.94	3/4/2021	ND	28.94	N/A	695.00
MW-76	723.94	3/8/2021	ND	28.98	N/A	694.96
MW-76	723.94	3/15/2021	ND	28.93	N/A	695.01
MW-77	722.70	3/4/2021	ND	28.78	N/A	693.92
MW-77	722.70	3/8/2021	ND	28.85	N/A	693.85
MW-77	722.70	3/15/2021	ND	28.78	N/A	693.92
MW-78	725.08	3/4/2021	ND	33.02	N/A	692.06
MW-78	725.08	3/8/2021	ND	33.07	N/A	692.01
MW-78	725.08	3/15/2021	ND	33.00	N/A	692.08
MW-79	721.56	3/4/2021	ND	27.60	N/A	693.96
MW-79	721.56	3/8/2021	ND	27.66	N/A	693.90
MW-79	721.56	3/15/2021	ND	27.60	N/A	693.96
MW-80	722.65	3/4/2021	ND	28.76	N/A	693.89
MW-80	722.65	3/8/2021	ND	28.81	N/A	693.84
MW-80	722.65	3/15/2021	ND	28.72	N/A	693.93
MW-81	723.10	3/4/2021	ND	30.33	N/A	692.77
MW-81	723.10	3/8/2021	ND	30.34	N/A	692.76
MW-81	723.10	3/15/2021	ND	30.19	N/A	692.91

**Table 3  
Summary of Monitoring Well Gauging Data**

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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-82	724.48	3/4/2021	ND	32.38	N/A	692.10
MW-82	724.48	3/8/2021	ND	32.39	N/A	692.09
MW-82	724.48	3/15/2021	ND	32.25	N/A	692.23
MW-83	724.91	3/8/2021	ND	32.77	N/A	692.14
MW-83	724.91	3/15/2021	ND	30.63	N/A	694.28
MW-84	723.99	3/8/2021	ND	31.37	N/A	692.62
MW-84	723.99	3/15/2021	ND	29.60	N/A	694.39
MW-85	727.75	3/11/2021	31.56	37.17	5.61	694.69
MW-85	727.75	3/15/2021	31.38	37.60	6.22	694.70
<b>Deep Monitoring Wells</b>						
MW-07D	711.73	12/21/2020	ND	29.38	N/A	682.35
MW-07D	711.73	12/26/2020	ND	29.37	N/A	682.36
MW-07D	711.73	1/10/2021	ARP	ARP	ARP	ARP
MW-07D	711.73	1/19/2021	ND	29.83	N/A	681.90
MW-07D	711.73	1/25/2021	ND	29.76	N/A	681.97
MW-07D	711.73	2/1/2021	ND	29.82	N/A	681.91
MW-07D	711.73	2/8/2021	ND	29.94	N/A	681.79
MW-07D	711.73	2/16/2021	ND	29.66	N/A	682.07
MW-07D	711.73	2/22/2021	ND	29.40	N/A	682.33
MW-07D	711.73	3/4/2021	ND	29.19	N/A	682.54
MW-07D	711.73	3/8/2021	ND	29.30	N/A	682.43
MW-07D	711.73	3/15/2021	ND	29.28	N/A	682.45
MW-14D	722.75	3/4/2021	ND	28.64	N/A	694.11
MW-14D	722.75	3/8/2021	ND	28.36	N/A	694.39
MW-14D	722.75	3/15/2021	ND	28.25	N/A	694.50
MW-25D	733.05	12/26/2020	ND	46.90	N/A	686.15
MW-25D	733.05	1/10/2021	ND	47.10	N/A	685.95
MW-25D	733.05	1/19/2021	ND	47.93	N/A	685.12
MW-25D	733.05	1/25/2021	ND	47.80	N/A	685.25
MW-25D	733.05	2/1/2021	ND	47.69	N/A	685.36
MW-25D	733.05	2/8/2021	ND	48.05	N/A	685.00
MW-25D	733.05	2/16/2021	ND	47.82	N/A	685.23
MW-25D	733.05	2/22/2021	ND	47.65	N/A	685.40
MW-25D	733.05	3/4/2021	ND	47.34	N/A	685.71
MW-25D	733.05	3/8/2021	ND	47.52	N/A	685.53
MW-25D	733.05	3/15/2021	ND	47.48	N/A	685.57

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Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-36D	710.81	12/7/2020	ND	24.81	N/A	686.00
MW-36D	710.81	12/21/2020	ND	24.46	N/A	686.35
MW-36D	710.81	12/26/2020	ND	24.49	N/A	686.32
MW-36D	710.81	1/19/2021	ND	24.14	N/A	686.67
MW-36D	710.81	1/25/2021	ND	34.19	N/A	676.62
MW-36D	710.81	2/1/2021	ND	24.21	N/A	686.60
MW-36D	710.81	2/8/2021	ND	24.12	N/A	686.69
MW-36D	710.81	2/16/2021	ND	23.93	N/A	686.88
MW-36D	710.81	2/22/2021	ND	26.35	N/A	684.46
MW-36D	710.81	3/4/2021	ND	23.44	N/A	687.37
MW-36D	710.81	3/8/2021	ND	33.42	N/A	677.39
MW-36D	710.81	3/15/2021	ND	23.40	N/A	687.41
MW-57D	686.44	12/7/2020	ND	11.25	N/A	675.19
MW-57D	686.44	12/21/2020	ND	10.87	N/A	675.57
MW-57D	686.44	12/26/2020	ND	10.82	N/A	675.62
MW-57D	686.44	1/10/2021	ND	10.56	N/A	675.88
MW-57D	686.44	1/19/2021	ND	10.73	N/A	675.71
MW-57D	686.44	1/25/2021	ND	10.74	N/A	675.70
MW-57D	686.44	2/1/2021	ND	10.17	N/A	676.27
MW-57D	686.44	2/8/2021	ND	10.16	N/A	676.28
MW-57D	686.44	2/16/2021	ND	9.49	N/A	676.95
MW-57D	686.44	2/22/2021	ND	6.39	N/A	680.05
MW-57D	686.44	3/4/2021	ND	9.08	N/A	677.36
MW-57D	686.44	3/8/2021	ND	9.36	N/A	677.08
MW-57D	686.44	3/15/2021	ND	9.39	N/A	677.05
MW-59D	720.98	12/7/2020	ND	60.12	N/A	660.86
MW-59D	720.98	12/21/2020	ND	35.43	N/A	685.55
MW-59D	720.98	12/26/2020	ND	34.71	N/A	686.27
MW-59D	720.98	1/10/2021	ND	38.82	N/A	682.16
MW-59D	720.98	1/19/2021	ND	34.70	N/A	686.28
MW-59D	720.98	1/25/2021	ND	34.36	N/A	686.62
MW-59D	720.98	2/1/2021	ND	34.04	N/A	686.94
MW-59D	720.98	2/8/2021	ND	33.93	N/A	687.05
MW-59D	720.98	2/16/2021	ND	36.06	N/A	684.92
MW-59D	720.98	2/22/2021	ND	33.99	N/A	686.99
MW-59D	720.98	3/4/2021	ND	33.47	N/A	687.51
MW-59D	720.98	3/8/2021	ND	33.46	N/A	687.52
MW-59D	720.98	3/15/2021	ND	34.11	N/A	686.87

**Table 3  
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
MW-61D	745.40	11/23/2020	ND	NM	N/A	NM
MW-61D	745.40	12/7/2020	ND	53.30	N/A	692.10
MW-61D	745.40	12/21/2020	ND	53.50	N/A	691.90
MW-61D	745.40	12/26/2020	ND	53.56	N/A	691.84
MW-61D	745.40	1/10/2021	ND	53.83	N/A	691.57
MW-61D	745.50	1/19/2021	ND	53.94	N/A	691.56
MW-61D	745.50	1/25/2021	ND	59.88	N/A	685.62
MW-61D	745.50	2/1/2021	ND	53.86	N/A	691.64
MW-61D	745.50	2/8/2021	ND	54.21	N/A	691.29
MW-61D	745.50	2/16/2021	ND	53.91	N/A	691.59
MW-61D	745.50	2/22/2021	ND	53.82	N/A	691.68
MW-61D	745.50	3/4/2021	ND	53.82	N/A	691.68
MW-61D	745.50	3/8/2021	ND	53.92	N/A	691.58
MW-61D	745.50	3/15/2021	ND	54.05	N/A	691.45
MW-62D	729.92	1/19/2020	ND	54.22	N/A	675.70
MW-62D	729.92	12/7/2020	ND	54.99	N/A	674.93
MW-62D	729.92	12/21/2020	ND	54.05	N/A	675.87
MW-62D	729.92	12/26/2020	ND	54.19	N/A	675.73
MW-62D	729.92	1/10/2021	ND	54.07	N/A	675.85
MW-62D	729.92	1/25/2021	ND	54.00	N/A	675.92
MW-62D	729.92	2/1/2021	ND	54.15	N/A	675.77
MW-62D	729.92	2/8/2021	ND	53.62	N/A	676.30
MW-62D	729.92	2/16/2021	ND	53.76	N/A	676.16
MW-62D	729.92	2/22/2021	ND	53.38	N/A	676.54
MW-62D	729.92	3/4/2021	ND	53.03	N/A	676.89
MW-62D	729.92	3/8/2021	ND	53.60	N/A	676.32
MW-62D	729.92	3/15/2021	ND	53.87	N/A	676.05

**Table 3**  
**Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company  
 2020-L1-SR2448  
 Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
MW-65D	714.15	12/26/2020	ND	23.15	N/A	691.00
MW-65D	714.15	1/10/2021	ND	22.93	N/A	691.22
MW-65D	714.15	1/19/2021	ND	22.95	N/A	691.20
MW-65D	714.15	2/1/2021	ND	22.76	N/A	691.39
MW-65D	714.15	2/8/2021	ND	22.89	N/A	691.26
MW-65D	714.15	2/16/2021	ND	22.62	N/A	691.53
MW-65D	714.15	2/22/2021	ND	22.53	N/A	691.62
MW-65D	714.15	3/4/2021	ND	22.31	N/A	691.84
MW-65D	714.15	3/8/2021	ND	22.38	N/A	691.77
MW-65D	714.15	3/15/2021	ND	22.22	N/A	691.93
MW-79D	720.52	3/4/2021	ND	85.61	N/A	634.91
MW-79D	720.52	3/8/2021	ND	42.71	N/A	677.81
MW-79D	720.52	3/15/2021	ND	44.79	N/A	675.73

**Notes:**

ft btoc = Feet Below Top of Casing

N/A = Not Applicable

MW = Monitoring Well

ND = Not Detected

ARP = Active Recovery Pump in Well

NM = Not Measured

<sup>1</sup> = Elevations surveyed in feet using the NAVD88 vertical datum

<sup>2</sup> = Corrected Groundwater Elevation = (Top of Casing - Depth to Water) + (Free Product Thickness x 0.7324)

\* = Top Of Casing resurveyed

\*\* = Initial well reinstalled

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-01*	733.43	9/1/2020	28.60	36.95	8.35	702.59
RW-01*	733.43	9/3/2020	30.60	35.95	5.35	701.39
RW-01*	733.43	9/5/2020	29.11	37.05	7.94	702.19
RW-01*	733.43	9/8/2020	29.40	36.95	7.55	702.00
RW-01*	733.43	9/9/2020	29.50	37.10	7.60	701.89
RW-01*	733.43	9/12/2020	30.00	36.95	6.95	701.57
RW-01*	733.43	9/14/2020	30.00	37.20	7.20	701.50
RW-01*	733.43	9/18/2020	30.80	37.00	6.20	700.97
RW-01*	733.43	9/28/2020	31.15	37.00	5.85	700.71
RW-01*	733.43	10/2/2020	31.30	37.15	5.85	700.56
RW-01*	733.43	10/7/2020	31.65	37.20	5.55	700.29
RW-01*	733.43	10/19/2020	32.12	37.00	4.88	700.00
RW-01*	733.43	11/9/2020	33.10	37.13	4.03	699.25
RW-01*	733.43	11/23/2020	33.45	37.18	3.73	698.98
RW-01*	733.43	12/26/2020	32.81	32.82	0.01	700.61
RW-01*	733.43	2/1/2021	33.57	35.48	1.91	699.34
RW-01	732.08	3/4/2021	34.24	35.71	1.47	697.45
RW-02*	731.66	9/1/2020	27.30	39.60	12.30	701.07
RW-02*	731.66	9/5/2020	27.66	39.67	12.01	700.79
RW-02*	731.66	9/8/2020	27.90	39.65	11.75	700.62
RW-02*	731.66	9/9/2020	28.65	39.65	11.00	700.07
RW-02*	731.66	9/12/2020	28.43	38.95	10.52	700.41
RW-02*	731.66	9/14/2020	28.43	39.70	11.27	700.21
RW-02*	731.66	9/18/2020	29.10	38.60	9.50	700.02
RW-02*	731.66	9/28/2020	29.52	39.42	9.90	699.49
RW-02*	731.66	10/2/2020	29.70	39.70	10.00	699.28
RW-02*	731.66	10/7/2020	30.04	39.68	9.64	699.04
RW-02*	731.66	10/19/2020	30.45	39.65	9.20	698.75
RW-02*	731.66	11/9/2020	31.38	39.65	8.27	698.07
RW-02*	731.66	11/23/2020	ND	31.80	N/A	699.86
RW-02*	731.66	12/26/2020	ND	37.81	N/A	693.85
RW-02*	731.66	2/1/2021	ND	33.39	N/A	698.27
RW-02	732.05	3/4/2021	33.97	38.32	4.35	696.92

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-03	731.51	9/1/2020	34.15	37.55	3.40	696.45
RW-03	731.51	9/3/2020	37.20	37.26	0.06	694.30
RW-03	731.51	9/5/2020	35.50	37.44	1.94	695.49
RW-03	731.51	9/8/2020	34.80	35.95	1.15	696.40
RW-03	731.51	9/9/2020	33.95	38.80	4.85	696.26
RW-03	731.51	9/11/2020	34.92	36.60	1.68	696.14
RW-03	731.51	9/12/2020	34.85	36.35	1.50	696.26
RW-03	731.51	9/14/2020	33.91	36.97	3.06	696.78
RW-03	731.51	9/18/2020	34.20	37.10	2.90	696.54
RW-03	731.51	9/28/2020	33.85	37.55	3.70	696.67
RW-03	731.51	10/2/2020	34.72	38.17	3.45	695.87
RW-03	731.51	10/6/2020	33.55	38.80	5.25	696.56
RW-03	731.51	10/19/2020	33.00	38.89	5.89	696.94
RW-03	731.51	11/9/2020	33.31	38.84	5.53	696.72
RW-03	731.51	12/26/2020	31.85	36.45	4.60	698.43
RW-03	731.51	2/1/2021	31.66	36.52	4.86	698.55
RW-03	731.51	3/4/2021	32.01	36.53	4.52	698.29
RW-04	729.41	9/3/2020	36.10	37.60	1.50	692.91
RW-04	729.41	9/5/2020	32.10	35.81	3.71	696.32
RW-04	729.41	9/8/2020	31.35	36.20	4.85	696.76
RW-04	729.41	9/11/2020	31.85	34.85	3.00	696.76
RW-04	729.41	9/12/2020	32.60	35.15	2.55	696.13
RW-04	729.41	9/14/2020	31.00	35.00	4.00	697.34
RW-04	729.41	9/18/2020	30.60	33.80	3.20	697.95
RW-04	729.41	9/28/2020	28.00	36.70	8.70	699.08
RW-04	729.41	10/2/2020	27.93	37.00	9.07	699.05
RW-04	729.41	10/5/2020	28.20	36.95	8.75	698.87
RW-04	729.41	10/19/2020	28.60	37.00	8.40	698.56
RW-04	729.41	11/9/2020	30.16	36.18	6.02	697.64
RW-04	729.41	11/23/2020	30.00	36.54	6.54	697.66
RW-04	729.41	12/26/2020	38.25	47.20	8.95	688.76
RW-04	729.41	2/1/2021	30.99	33.05	2.06	697.87
RW-04	729.41	3/4/2021	32.28	35.51	3.23	696.26

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-05	726.29	9/1/2020	27.00	32.55	5.55	697.81
RW-05	726.29	9/3/2020	31.65	36.65	5.00	693.30
RW-05	726.29	9/5/2020	26.75	33.31	6.56	697.79
RW-05	726.29	9/8/2020	26.04	33.30	7.26	698.31
RW-05	726.29	9/11/2020	26.60	31.60	5.00	698.35
RW-05	726.29	9/12/2020	27.15	29.60	2.45	698.49
RW-05	726.29	9/14/2020	26.80	29.92	3.12	698.66
RW-05	726.29	9/18/2020	27.70	28.80	1.10	698.30
RW-05	726.29	9/28/2020	27.60	29.35	1.75	698.22
RW-05	726.29	10/2/2020	27.30	31.30	4.00	697.92
RW-05	726.29	10/5/2020	27.13	32.00	4.87	697.86
RW-05	726.29	10/19/2020	25.90	36.76	10.86	697.48
RW-05	726.29	11/9/2020	26.95	35.93	8.98	696.94
RW-05	726.29	11/23/2020	27.40	30.30	2.90	698.11
RW-05	726.29	12/26/2020	29.70	32.30	2.60	695.90
RW-05	726.29	2/1/2021	29.81	31.90	2.09	695.92
RW-05	726.29	3/4/2021	ND	30.03	N/A	696.26
RW-06	734.78	9/1/2020	37.65	43.85	6.20	695.47
RW-06	734.78	9/3/2020	44.70	45.10	0.40	689.97
RW-06	734.78	9/5/2020	38.33	43.73	5.40	695.00
RW-06	734.78	9/8/2020	45.22	45.50	0.28	689.48
RW-06	734.78	9/9/2020	37.42	43.32	5.90	695.78
RW-06	734.78	9/11/2020	39.30	42.55	3.25	694.61
RW-06	734.78	9/12/2020	38.35	41.70	3.35	695.53
RW-06	734.78	9/14/2020	37.25	42.00	4.75	696.26
RW-06	734.78	9/18/2020	38.90	43.15	4.25	694.74
RW-06	734.78	9/28/2020	36.05	47.53	11.48	695.65
RW-06	734.78	10/2/2020	37.00	43.50	6.50	696.04
RW-06	734.78	10/5/2020	36.95	44.47	7.52	695.81
RW-06	734.78	10/19/2020	36.76	47.73	10.97	695.08
RW-06	734.78	11/9/2020	37.50	46.91	9.41	694.76
RW-06	734.78	11/23/2020	37.80	46.80	9.00	694.57
RW-06	734.78	12/26/2020	28.07	36.03	7.96	704.58
RW-06	734.78	2/1/2021	39.36	45.89	6.53	693.67
RW-06	734.78	3/4/2021	39.98	45.07	5.09	693.43

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-07	726.92	9/5/2020	34.20	41.55	7.35	690.75
RW-07	726.92	9/8/2020	33.70	46.00	12.30	689.92
RW-07	726.92	9/9/2020	37.45	40.82	3.37	688.56
RW-07	726.92	9/10/2020	36.40	39.90	3.50	689.58
RW-07	726.92	9/12/2020	33.52	45.60	12.08	690.16
RW-07	726.92	9/14/2020	34.01	40.09	6.08	691.28
RW-07	726.92	9/18/2020	36.50	42.30	5.80	688.86
RW-07	726.92	9/28/2020	32.50	45.30	12.80	690.99
RW-07	726.92	10/2/2020	33.52	40.95	7.43	691.41
RW-07	726.92	10/6/2020	33.50	42.83	9.33	690.92
RW-07	726.92	10/19/2020	32.80	46.13	13.33	690.55
RW-07	726.92	11/9/2020	33.30	46.20	12.90	690.16
RW-07	726.92	11/23/2020	33.40	45.70	12.30	690.22
RW-07	726.92	10/21/2020	32.80	46.13	13.33	690.55
RW-07	726.92	12/26/2020	31.87	33.51	1.64	694.61
RW-07	726.92	2/1/2021	33.56	39.93	6.37	691.65
RW-07	726.92	3/4/2021	33.74	39.95	6.21	691.51
RW-08	730.40	9/6/2020	ND	38.36	N/A	692.04
RW-08	730.40	9/8/2020	ND	38.32	N/A	692.08
RW-08	730.40	9/14/2020	ND	31.89	N/A	698.51
RW-08	730.40	10/9/2020	ND	31.66	N/A	698.74
RW-08	730.40	10/19/2020	32.21	35.93	3.72	697.20
RW-08	730.40	11/9/2020	ND	33.42	N/A	696.98
RW-08	730.40	11/23/2020	33.56	35.98	2.42	696.20
RW-08	730.40	12/26/2020	ND	33.75	N/A	696.65
RW-08	730.40	1/19/2021	34.25	35.95	1.70	695.70
RW-08	730.40	1/25/2021	34.44	36.01	1.57	695.54
RW-08	730.40	2/1/2021	ND	Dry	N/A	Dry
RW-08	730.40	2/8/2021	35.19	Dry	N/A	Dry
RW-08	730.40	2/16/2021	35.44	36.01	0.57	694.81
RW-08	730.40	2/22/2021	ND	35.62	N/A	694.78
RW-08	730.40	3/4/2021	ND	35.88	N/A	694.52
RW-08	730.40	3/8/2021	ND	36.04	N/A	694.36
RW-08	730.40	3/15/2021	36.01	36.05	0.04	694.38

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

<b>Well ID</b>	<b>Top Of Casing Elevation<sup>1</sup></b>	<b>Date</b>	<b>Depth to Free Product (ft btoc)</b>	<b>Depth to Groundwater (ft btoc)</b>	<b>Free Product Thickness (ft)</b>	<b>Groundwater Elevation<sup>2</sup> (ft btoc)</b>
RW-09*	732.39	9/1/2020	29.95	39.55	9.60	699.87
RW-09*	732.39	9/3/2020	37.55	37.85	0.30	694.76
RW-09*	732.39	9/5/2020	29.88	41.42	11.54	699.42
RW-09*	732.39	9/8/2020	30.50	38.05	7.55	699.87
RW-09*	732.39	9/9/2020	30.20	40.10	9.90	699.54
RW-09*	732.39	9/12/2020	31.07	39.46	8.39	699.07
RW-09*	732.39	9/14/2020	30.15	37.85	7.70	700.18
RW-09*	732.39	9/18/2020	31.30	37.50	6.20	699.43
RW-09*	732.39	9/28/2020	37.70	38.53	0.83	694.46
RW-09*	732.39	10/2/2020	30.10	42.80	12.70	698.89
RW-09*	732.39	10/7/2020	31.10	40.20	9.10	698.85
RW-09*	732.39	10/19/2020	31.13	42.88	11.75	698.11
RW-09*	732.39	11/9/2020	32.05	42.90	10.85	697.43
RW-09*	732.39	11/23/2020	32.31	42.93	10.62	697.24
RW-09*	732.39	12/26/2020	31.02	39.58	8.56	699.08
RW-09*	732.39	2/1/2021	31.21	37.90	6.69	699.39
RW-09	730.09	3/4/2021	31.61	36.26	4.65	697.24
RW-10*	734.38	9/1/2020	19.95	33.10	13.15	710.91
RW-10*	734.38	9/3/2020	25.85	33.40	7.55	706.51
RW-10*	734.38	9/5/2020	29.20	33.60	4.40	704.00
RW-10*	734.38	9/8/2020	29.60	34.00	4.40	703.60
RW-10*	734.38	9/9/2020	29.85	34.53	4.68	703.28
RW-10*	734.38	9/12/2020	30.50	33.50	3.00	703.08
RW-10*	734.38	9/14/2020	30.20	33.40	3.20	703.32
RW-10*	734.38	9/18/2020	31.60	33.40	1.80	702.30
RW-10*	734.38	9/28/2020	31.45	33.00	1.55	702.51
RW-10*	734.38	10/2/2020	31.73	33.43	1.70	702.19
RW-10*	734.38	10/7/2020	32.10	33.40	1.30	701.93
RW-10*	734.38	10/19/2020	32.72	33.31	0.59	701.50
RW-10*	734.38	10/21/2020	32.72	33.31	0.59	701.50
RW-10*	734.38	11/9/2020	ND	33.20	N/A	701.18
RW-10*	734.38	11/23/2020	33.21	33.60	0.39	701.06
RW-10*	734.38	12/26/2020	ND	30.56	N/A	703.82
RW-10*	734.38	2/1/2021	ND	30.57	N/A	703.81
RW-10	731.87	3/4/2021	ND	30.57	N/A	701.30

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-11	725.94	9/6/2020	32.23	34.39	2.16	693.13
RW-11	725.94	9/8/2020	31.60	32.80	1.20	694.02
RW-11	725.94	9/14/2020	28.85	31.62	2.77	696.35
RW-11	725.94	9/18/2020	34.00	34.00	0.00	691.94
RW-11	725.94	9/28/2020	29.90	31.90	2.00	695.50
RW-11	725.94	10/2/2020	32.30	32.60	0.30	693.56
RW-11	725.94	10/5/2020	27.70	34.10	6.40	696.53
RW-11	725.94	10/19/2020	27.70	31.27	3.57	697.28
RW-11	725.94	11/9/2020	28.33	31.14	2.81	696.86
RW-11	725.94	11/23/2020	28.61	29.80	1.19	697.01
RW-11	725.94	10/21/2020	27.70	31.27	3.57	697.28
RW-11	725.94	12/26/2020	29.05	32.58	3.53	695.94
RW-11	725.94	2/1/2021	29.16	32.30	3.14	695.94
RW-11	725.94	3/4/2021	29.31	31.97	2.66	695.92
RW-12	726.61	9/5/2020	31.45	33.82	2.37	694.53
RW-12	726.61	9/6/2020	34.95	35.14	0.19	691.61
RW-12	726.61	9/8/2020	34.20	36.10	1.90	691.90
RW-12	726.61	9/9/2020	34.24	36.65	2.41	691.73
RW-12	726.61	9/10/2020	34.70	35.83	1.13	691.61
RW-12	726.61	9/12/2020	32.89	34.35	1.46	693.33
RW-12	726.61	9/14/2020	31.81	36.18	4.37	693.63
RW-12	726.61	9/18/2020	32.35	34.60	2.25	693.66
RW-12	726.61	9/28/2020	29.43	36.91	7.48	695.18
RW-12	726.61	10/2/2020	31.10	36.40	5.30	694.09
RW-12	726.61	10/6/2020	29.78	37.75	7.97	694.70
RW-12	726.61	10/19/2020	30.35	37.04	6.69	694.47
RW-12	726.61	11/9/2020	31.21	37.08	5.87	693.83
RW-12	726.61	11/23/2020	31.53	37.08	5.55	693.60
RW-12	726.61	12/26/2020	31.00	35.51	4.51	694.40
RW-12	726.61	2/1/2021	32.01	35.51	3.50	693.66
RW-12	726.61	3/4/2021	32.52	35.51	2.99	693.29

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-13	732.30	9/5/2020	ND	24.90	N/A	707.40
RW-13	732.30	9/6/2020	ND	26.54	N/A	705.76
RW-13	732.30	9/8/2020	ND	27.05	N/A	705.25
RW-13	732.30	9/14/2020	ND	27.93	N/A	704.37
RW-13	732.30	10/9/2020	ND	28.34	N/A	703.96
RW-13	732.30	10/19/2020	33.87	34.11	0.24	698.36
RW-13	732.30	11/9/2020	ND	31.09	N/A	701.21
RW-13	732.30	11/23/2020	31.10	31.23	0.13	701.16
RW-13	732.30	12/26/2020	ND	31.85	N/A	700.45
RW-13	732.30	1/25/2021	32.53	32.79	0.26	699.70
RW-13	732.30	2/1/2021	32.67	32.92	0.25	699.56
RW-13	732.30	2/8/2021	32.82	33.09	0.27	699.41
RW-13	732.30	2/16/2021	32.86	33.18	0.32	699.35
RW-13	732.30	3/4/2021	33.10	33.39	0.29	699.12
RW-14	732.14	9/6/2020	27.12	39.68	12.56	701.65
RW-14	732.14	9/8/2020	27.15	36.25	9.10	702.55
RW-14	732.14	9/10/2020	27.95	35.05	7.10	702.29
RW-14	732.14	9/12/2020	27.40	38.95	11.55	701.65
RW-14	732.14	9/14/2020	27.68	39.15	11.47	701.39
RW-14	732.14	9/18/2020	29.15	39.20	10.05	700.30
RW-14	732.14	9/28/2020	29.30	39.93	10.63	699.99
RW-14	732.14	10/2/2020	29.63	39.95	10.32	699.74
RW-14	732.14	10/6/2020	29.90	40.00	10.10	699.53
RW-14	732.14	10/19/2020	30.60	39.94	9.34	699.04
RW-14	732.14	11/9/2020	31.69	40.10	8.41	698.20
RW-14	732.14	11/23/2020	32.09	40.05	7.96	697.92
RW-14	732.14	12/26/2020	33.11	38.57	5.46	697.56
RW-14	732.14	2/1/2021	33.65	37.77	4.12	697.38
RW-14	732.14	3/4/2021	33.92	37.62	3.70	697.23

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-15	723.99	9/6/2020	34.07	34.10	0.03	689.91
RW-15	723.99	9/8/2020	34.15	34.17	0.02	689.83
RW-15	723.99	9/14/2020	34.25	34.29	0.04	689.73
RW-15	723.99	9/28/2020	34.62	34.68	0.06	689.35
RW-15	723.99	10/9/2020	ND	34.98	N/A	689.01
RW-15	723.99	10/19/2020	35.02	35.12	0.10	688.94
RW-15	723.99	11/9/2020	35.09	35.29	0.20	688.85
RW-15	723.99	11/9/2020	34.94	35.03	0.09	689.03
RW-15	723.99	11/23/2020	ND	45.23	N/A	678.76
RW-15	723.99	12/26/2020	35.01	35.25	0.24	688.92
RW-15	723.99	1/19/2021	34.99	35.35	0.36	688.90
RW-15	723.99	1/25/2021	34.84	35.21	0.37	689.05
RW-15	723.99	2/1/2021	34.73	35.11	0.38	689.16
RW-15	723.99	2/8/2021	35.15	35.60	0.45	688.72
RW-15	723.99	2/16/2021	34.78	35.21	0.43	689.09
RW-15	723.99	2/22/2021	34.60	35.50	0.90	689.15
RW-15	723.99	3/4/2021	34.45	34.90	0.45	689.42
RW-15	723.99	3/8/2021	34.63	35.13	0.50	689.23
RW-15	723.99	3/15/2021	34.49	34.98	0.49	689.37
RW-16	732.10	9/5/2020	30.80	37.71	6.91	699.45
RW-16	732.10	9/6/2020	30.14	36.39	6.25	700.28
RW-16	732.10	9/8/2020	30.60	35.70	5.10	700.13
RW-16	732.10	9/9/2020	29.80	39.92	10.12	699.59
RW-16	732.10	9/10/2020	35.95	39.70	3.75	695.14
RW-16	732.10	9/12/2020	34.65	38.60	3.95	696.39
RW-16	732.10	9/14/2020	30.85	36.70	5.85	699.68
RW-16	732.10	9/18/2020	32.15	36.30	4.15	698.83
RW-16	732.10	9/28/2020	31.55	37.40	5.85	698.98
RW-16	732.10	10/2/2020	31.47	37.82	6.35	698.93
RW-16	732.10	10/6/2020	30.90	40.50	9.60	698.63
RW-16	732.10	10/19/2020	31.00	43.12	12.12	697.85
RW-16	732.10	11/9/2020	32.05	42.12	10.07	697.35
RW-16	732.10	11/23/2020	32.43	42.34	9.91	697.01
RW-16	732.10	12/26/2020	31.37	39.10	7.73	698.66
RW-16	732.10	2/1/2021	31.84	38.08	6.24	698.59
RW-16	732.10	3/4/2021	32.49	36.72	4.23	698.47

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-17	729.57	9/6/2020	ND	19.94	N/A	709.63
RW-17	729.57	9/8/2020	ND	27.05	N/A	702.52
RW-17	729.57	9/14/2020	ND	20.05	N/A	709.52
RW-17	729.57	9/28/2020	ND	20.04	N/A	709.53
RW-17	729.57	10/9/2020	ND	20.06	N/A	709.51
RW-17	729.57	10/19/2020	ND	20.06	N/A	709.51
RW-17	729.57	11/9/2020	ND	20.09	N/A	709.48
RW-17	729.57	11/23/2020	ND	20.09	N/A	709.48
RW-17	729.57	12/26/2020	ND	20.11	N/A	709.46
RW-17	729.57	1/25/2021	ND	20.08	N/A	709.49
RW-17	729.57	2/1/2021	ND	Dry	N/A	Dry
RW-17	729.57	2/8/2021	ND	20.08	N/A	709.49
RW-17	729.57	2/16/2021	ND	20.08	N/A	709.49
RW-17	729.57	2/22/2021	ND	Dry	N/A	Dry
RW-17	729.57	3/4/2021	ND	Dry	N/A	Dry
RW-17	729.57	3/8/2021	ND	21.08	N/A	708.49
RW-17	729.57	3/15/2021	ND	20.11	N/A	709.46
RW-18	737.66	9/8/2020	36.15	40.20	4.05	700.42
RW-18	737.66	9/9/2020	36.40	41.35	4.95	699.93
RW-18	737.66	9/12/2020	36.50	40.00	3.50	700.22
RW-18	737.66	9/14/2020	34.95	42.00	7.05	700.82
RW-18	737.66	9/18/2020	36.55	42.00	5.45	699.65
RW-18	737.66	9/28/2020	35.42	45.45	10.03	699.55
RW-18	737.66	10/2/2020	35.20	47.65	12.45	699.12
RW-18	737.66	10/7/2020	35.70	47.48	11.78	698.80
RW-18	737.66	10/19/2020	36.54	47.75	11.21	698.12
RW-18	737.66	11/9/2020	37.73	47.71	9.98	697.26
RW-18	737.66	11/23/2020	37.86	47.57	9.71	697.20
RW-18	737.66	12/26/2020	36.91	45.38	8.47	698.48
RW-18	737.66	2/1/2021	38.19	43.31	5.12	698.10
RW-18	737.66	3/4/2021	38.30	42.78	4.48	698.16

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-19	722.02	9/8/2020	ND	32.80	N/A	689.22
RW-19	722.02	9/14/2020	ND	32.74	N/A	689.28
RW-19	722.02	9/28/2020	ND	32.92	N/A	689.10
RW-19	722.02	10/9/2020	ND	33.23	N/A	688.79
RW-19	722.02	10/19/2020	ND	33.28	N/A	688.74
RW-19	722.02	11/9/2020	33.28	33.30	0.02	688.73
RW-19	722.02	11/9/2020	33.06	33.16	0.10	688.93
RW-19	722.02	11/23/2020	ND	33.22	N/A	688.80
RW-19	722.02	12/26/2020	33.09	33.29	0.20	688.88
RW-19	722.02	1/19/2021	33.07	33.57	0.50	688.82
RW-19	722.02	1/25/2021	32.94	33.48	0.54	688.94
RW-19	722.02	2/1/2021	32.89	33.42	0.53	688.99
RW-19	722.02	2/8/2021	33.18	33.93	0.75	688.64
RW-19	722.02	2/16/2021	32.82	33.64	0.82	688.98
RW-19	722.02	2/22/2021	32.67	33.51	0.84	689.13
RW-19	722.02	3/4/2021	32.44	33.59	1.15	689.27
RW-19	722.02	3/8/2021	32.57	33.93	1.36	689.09
RW-19	722.02	3/15/2021	32.37	33.92	1.55	689.24
RW-20	731.69	9/8/2020	ND	28.75	N/A	702.94
RW-20	731.69	9/14/2020	26.90	36.20	9.30	702.30
RW-20	731.69	9/28/2020	31.55	33.20	1.65	699.69
RW-20	731.69	10/2/2020	30.60	31.65	1.05	700.81
RW-20	731.69	10/6/2020	30.50	31.90	1.40	700.81
RW-20	731.69	10/19/2020	30.29	32.90	2.61	700.70
RW-20	731.69	10/21/2020	30.29	32.90	2.61	700.70
RW-20	731.69	11/9/2020	30.62	35.09	4.47	699.87
RW-20	731.69	11/23/2020	30.96	35.84	4.88	699.42
RW-20	731.69	12/26/2020	31.84	36.35	4.51	698.64
RW-20	731.69	2/1/2021	32.15	36.50	4.35	698.37
RW-20	731.69	3/4/2021	32.29	36.48	4.19	698.27
RW-21	731.68	9/13/2020	28.50	42.55	14.05	699.42
RW-21	731.68	9/14/2020	30.72	36.55	5.83	699.40
RW-21	731.68	9/18/2020	31.30	38.00	6.70	698.59
RW-21	731.68	9/28/2020	30.08	41.40	11.32	698.57
RW-21	731.68	10/2/2020	30.28	41.15	10.87	698.49
RW-21	731.68	10/6/2020	30.40	41.55	11.15	698.30
RW-21	731.68	10/19/2020	30.13	45.10	14.97	697.55
RW-21	731.68	11/9/2020	31.09	44.70	13.61	696.95
RW-21	731.68	11/23/2020	31.50	42.64	11.14	697.20
RW-21	731.68	12/26/2020	32.40	40.56	8.16	697.10
RW-21	731.68	2/1/2021	32.81	39.59	6.78	697.06
RW-21	731.68	3/4/2021	33.36	38.60	5.24	696.92

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-22*	726.60	9/10/2020	25.62	39.00	13.38	697.40
RW-22*	726.60	9/12/2020	26.70	31.62	4.92	698.58
RW-22*	726.60	9/14/2020	25.55	30.85	5.30	699.63
RW-22*	726.60	9/18/2020	26.10	32.10	6.00	698.89
RW-22*	726.60	9/28/2020	26.20	30.75	4.55	699.18
RW-22*	726.60	10/2/2020	25.55	33.00	7.45	699.06
RW-22*	726.60	10/5/2020	25.53	34.50	8.97	698.67
RW-22*	726.60	10/19/2020	25.93	37.32	11.39	697.62
RW-22*	726.60	11/9/2020	26.89	36.99	10.10	697.01
RW-22*	726.60	11/23/2020	27.29	36.70	9.41	696.79
RW-22*	726.60	12/26/2020	26.43	27.75	1.32	699.82
RW-22*	726.60	2/1/2021	26.68	34.43	7.75	697.85
RW-22	727.54	3/4/2021	29.80	31.73	1.93	697.22
RW-23	724.85	9/13/2020	31.80	41.73	9.93	690.39
RW-23	724.85	9/14/2020	31.79	41.68	9.89	690.41
RW-23	724.85	9/18/2020	32.95	39.35	6.40	690.18
RW-23	724.85	9/28/2020	32.91	39.45	6.54	690.19
RW-23	724.85	10/2/2020	33.39	39.31	5.92	689.87
RW-23	724.85	10/6/2020	33.25	39.25	6.00	689.99
RW-23	724.85	10/19/2020	33.30	39.26	5.96	689.95
RW-23	724.85	11/9/2020	33.39	39.03	5.64	689.95
RW-23	724.85	11/23/2020	33.35	38.97	5.62	689.99
RW-23	724.85	12/26/2020	31.75	36.77	5.02	691.75
RW-23	724.85	2/1/2021	32.32	36.29	3.97	691.46
RW-23	724.85	3/4/2021	32.49	35.38	2.89	691.58
RW-24*	734.33	9/11/2020	35.83	35.85	0.02	698.49
RW-24*	734.33	9/12/2020	ND	36.00	N/A	698.33
RW-24*	734.33	9/14/2020	35.75	36.25	0.50	698.44
RW-24*	734.33	9/18/2020	ND	36.10	N/A	698.23
RW-24*	734.33	9/28/2020	33.80	33.91	0.11	700.50
RW-24*	734.33	10/2/2020	33.15	35.20	2.05	700.63
RW-24*	734.33	10/5/2020	33.84	34.10	0.26	700.42
RW-24*	734.33	10/19/2020	32.84	37.15	4.31	700.33
RW-24*	734.33	11/9/2020	32.83	39.30	6.47	699.76
RW-24*	734.33	11/23/2020	34.61	35.53	0.92	699.47
RW-24*	734.33	12/26/2020	34.85	36.16	1.31	699.13
RW-24*	734.33	2/1/2021	35.12	35.94	0.82	698.99
RW-24	731.18	3/4/2021	35.46	36.12	0.66	695.54

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Summary of Recovery Well Gauging Data**

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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-25	724.92	9/13/2020	33.75	37.21	3.46	690.24
RW-25	724.92	9/14/2020	33.08	38.85	5.77	690.29
RW-25	724.92	9/18/2020	34.88	35.80	0.92	689.79
RW-25	724.92	9/28/2020	34.86	35.90	1.04	689.78
RW-25	724.92	10/2/2020	34.90	36.55	1.65	689.57
RW-25	724.92	10/6/2020	34.90	36.40	1.50	689.61
RW-25	724.92	10/19/2020	33.83	39.91	6.08	689.46
RW-25	724.92	11/9/2020	34.45	38.55	4.10	689.37
RW-25	724.92	11/23/2020	34.58	38.10	3.52	689.39
RW-25	724.92	12/26/2020	31.30	36.50	5.20	692.22
RW-25	724.92	2/1/2021	31.70	35.11	3.41	692.30
RW-25	724.92	3/4/2021	31.85	33.82	1.97	692.54
RW-26*	729.28	9/11/2020	29.80	30.35	0.55	699.34
RW-26*	729.28	9/12/2020	29.85	30.42	0.57	699.28
RW-26*	729.28	9/14/2020	29.79	30.41	0.62	699.33
RW-26*	729.28	9/18/2020	30.31	32.20	1.89	698.47
RW-26*	729.28	9/28/2020	27.60	29.25	1.65	701.24
RW-26*	729.28	10/2/2020	27.17	28.35	1.18	701.80
RW-26*	729.28	10/5/2020	27.01	29.15	2.14	701.70
RW-26*	729.28	10/19/2020	26.39	29.02	2.63	702.19
RW-26*	729.28	11/9/2020	26.82	29.60	2.78	701.72
RW-26*	729.28	11/23/2020	27.20	29.49	2.29	701.47
RW-26*	729.28	12/26/2020	27.62	28.53	0.91	701.42
RW-26*	729.28	2/1/2021	28.30	28.66	0.36	700.89
RW-26	725.72	3/4/2021	29.81	29.96	0.15	695.87
RW-27	722.46	9/13/2020	ND	35.08	N/A	687.38
RW-27	722.46	9/14/2020	ND	35.09	N/A	687.37
RW-27	722.46	9/18/2020	ND	35.20	N/A	687.26
RW-27	722.46	10/9/2020	ND	35.23	N/A	687.23
RW-27	722.46	10/19/2020	35.23	35.43	0.20	687.18
RW-27	722.46	11/9/2020	34.36	39.20	4.84	686.80
RW-27	722.46	11/23/2020	31.27	40.65	9.38	688.68
RW-27	722.46	12/26/2020	29.90	44.02	14.12	688.78
RW-27	722.46	2/1/2021	32.68	44.18	11.50	686.70
RW-27	722.46	3/4/2021	32.70	41.71	9.01	687.35

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-28*	733.88	9/11/2020	38.13	39.31	1.18	695.43
RW-28*	733.88	9/12/2020	ND	37.12	N/A	696.76
RW-28*	733.88	9/13/2020	35.84	45.27	9.43	695.51
RW-28*	733.88	9/14/2020	34.45	48.33	13.88	695.71
RW-28*	733.88	9/18/2020	35.70	36.25	0.55	698.03
RW-28*	733.88	9/28/2020	33.95	35.85	1.90	699.42
RW-28*	733.88	10/2/2020	34.05	35.47	1.42	699.45
RW-28*	733.88	10/5/2020	34.15	35.50	1.35	699.36
RW-28*	733.88	10/19/2020	31.30	42.74	11.44	699.51
RW-28*	733.88	11/9/2020	32.60	40.70	8.10	699.11
RW-28*	733.88	11/23/2020	33.00	40.10	7.10	698.98
RW-28*	733.88	12/26/2020	38.17	45.08	6.91	693.86
RW-28*	733.88	2/1/2021	34.12	39.01	4.89	698.45
RW-28	729.51	3/4/2021	36.16	36.23	0.07	693.33
RW-29	721.84	9/13/2020	26.80	45.11	18.31	690.14
RW-29	721.84	9/14/2020	28.36	38.80	10.44	690.69
RW-29	721.84	9/18/2020	29.00	43.00	14.00	689.09
RW-29	721.84	9/28/2020	26.95	35.85	8.90	692.51
RW-29	721.84	10/2/2020	27.10	47.00	19.90	689.42
RW-29	721.84	10/6/2020	27.32	45.90	18.58	689.55
RW-29	721.84	10/19/2020	27.68	47.65	19.97	688.82
RW-29	721.84	11/9/2020	28.35	47.89	19.54	688.26
RW-29	721.84	11/23/2020	28.65	48.30	19.65	687.93
RW-29	721.84	12/26/2020	27.56	44.11	16.55	689.85
RW-29	721.84	2/1/2021	ND	Dry	N/A	Dry
RW-29	721.84	3/4/2021	30.18	39.65	9.47	689.13
RW-30	719.60	9/14/2020	23.60	26.95	3.35	695.10
RW-30	719.60	9/28/2020	22.33	37.10	14.77	693.32
RW-30	719.60	10/2/2020	24.30	31.40	7.10	693.40
RW-30	719.60	10/6/2020	24.92	33.15	8.23	692.48
RW-30	719.60	10/19/2020	22.26	41.10	18.84	692.30
RW-30	719.60	11/9/2020	22.74	41.49	18.75	691.84
RW-30	719.60	11/23/2020	23.15	41.50	18.35	691.54
RW-30	719.60	12/26/2020	21.67	39.21	17.54	693.24
RW-30	719.60	2/1/2021	22.84	35.00	12.16	693.51
RW-30	719.60	3/4/2021	22.33	31.71	9.38	694.76

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-31	716.23	9/14/2020	27.38	28.66	1.28	688.51
RW-31	716.23	9/28/2020	23.25	43.45	20.20	687.57
RW-31	716.23	10/2/2020	26.30	35.40	9.10	687.49
RW-31	716.23	10/6/2020	24.99	36.40	11.41	688.18
RW-31	716.23	10/19/2020	22.55	46.14	23.59	687.37
RW-31	716.23	11/9/2020	22.74	48.18	25.44	686.68
RW-31	716.23	11/23/2020	22.91	NW	>25.16	N/A
RW-31	716.23	12/26/2020	21.08	46.13	25.05	688.44
RW-31	716.23	2/1/2021	22.42	46.16	23.74	687.46
RW-31	716.23	3/4/2021	22.31	NW	>23.69	N/A
RW-32	716.45	9/28/2020	26.65	38.78	12.13	686.55
RW-32	716.45	10/2/2020	27.50	36.95	9.45	686.42
RW-32	716.45	10/6/2020	27.31	33.30	5.99	687.53
RW-32	716.45	10/8/2020	27.31	33.30	5.99	687.53
RW-32	716.45	10/19/2020	26.89	39.24	12.35	686.25
RW-32	716.45	11/9/2020	27.04	40.14	13.10	685.90
RW-32	716.45	11/23/2020	27.15	40.37	13.22	685.76
RW-32	716.45	12/26/2020	25.31	39.55	14.24	687.32
RW-32	716.45	2/1/2021	28.39	40.42	12.03	684.84
RW-32	716.45	3/4/2021	28.18	38.28	10.10	685.56
RW-33	716.59	9/28/2020	ND	31.60	N/A	684.99
RW-33	716.59	10/9/2020	ND	30.88	N/A	685.71
RW-33	716.59	10/19/2020	ND	30.90	N/A	685.69
RW-33	716.59	11/9/2020	ND	31.24	N/A	685.35
RW-33	716.59	11/23/2020	31.25	31.31	0.06	685.32
RW-33	716.59	12/26/2020	31.33	32.34	1.01	684.99
RW-33	716.59	2/1/2021	29.70	38.67	8.97	684.49
RW-33	716.59	3/4/2021	29.94	35.54	5.60	685.15
RW-34	735.92	9/28/2020	33.95	43.25	9.30	699.48
RW-34	735.92	10/2/2020	42.78	43.50	0.72	692.94
RW-34	735.92	10/7/2020	42.59	43.31	0.72	693.13
RW-34	735.92	10/19/2020	42.64	43.73	1.09	692.98
RW-34	735.92	11/9/2020	42.21	45.75	3.54	692.76
RW-34	735.92	11/23/2020	41.91	46.26	4.35	692.84
RW-34	735.92	12/26/2020	39.03	48.84	9.81	694.26
RW-34	735.92	2/1/2021	40.58	48.31	7.73	693.27
RW-34	735.92	3/4/2021	40.61	NW	>7.89	N/A

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-35	740.16	10/2/2020	41.25	53.80	12.55	695.55
RW-35	740.16	10/7/2020	42.31	47.66	5.35	696.42
RW-35	740.16	10/19/2020	40.44	53.16	12.72	696.32
RW-35	740.16	11/9/2020	40.87	53.48	12.61	695.92
RW-35	740.16	11/23/2020	41.56	53.07	11.51	695.52
RW-35	740.16	12/26/2020	41.96	54.60	12.64	694.82
RW-35	740.16	2/1/2021	43.28	52.67	9.39	694.37
RW-35	740.16	3/4/2021	43.72	53.11	9.39	693.93
RW-36*	743.69	10/2/2020	45.00	58.63	13.63	695.04
RW-36*	743.69	10/7/2020	45.22	56.81	11.59	695.37
RW-36*	743.69	10/19/2020	45.39	59.40	14.01	694.55
RW-36*	743.69	11/9/2020	45.84	58.68	12.84	694.42
RW-36*	743.69	11/23/2020	46.10	59.50	13.40	694.01
RW-36*	743.69	12/26/2020	44.45	56.67	12.22	695.97
RW-36*	743.69	2/1/2021	46.24	55.27	9.03	695.03
RW-36	741.45	3/4/2021	46.87	54.63	7.76	692.50
RW-37*	744.77	10/8/2020	51.74	53.64	1.90	692.52
RW-37*	744.77	10/19/2020	52.15	52.87	0.72	692.43
RW-37*	744.77	11/9/2020	51.95	53.65	1.70	692.37
RW-37*	744.77	11/23/2020	52.16	53.30	1.14	692.31
RW-37*	744.77	12/26/2020	49.85	52.54	2.69	694.20
RW-37*	744.77	2/1/2021	49.83	53.88	4.05	693.86
RW-37	742.78	3/4/2021	50.10	53.06	2.96	691.89
RW-38*	739.72	10/2/2020	38.70	49.00	10.30	698.27
RW-38*	739.72	10/7/2020	39.38	45.53	6.15	698.70
RW-38*	739.72	10/19/2020	38.15	49.55	11.40	698.52
RW-38*	739.72	11/9/2020	39.17	49.60	10.43	697.76
RW-38*	739.72	11/23/2020	39.71	NW	>9.97	N/A
RW-38*	739.72	12/26/2020	38.12	47.70	9.58	699.04
RW-38*	739.72	2/1/2021	39.17	46.70	7.53	698.54
RW-38	737.33	3/4/2021	39.92	47.00	7.08	695.52

**Table 4  
Summary of Recovery Well Gauging Data**

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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-39	721.77	10/8/2020	ND	32.44	N/A	689.33
RW-39	721.77	10/19/2020	32.49	32.66	0.17	689.24
RW-39	721.77	11/9/2020	32.47	32.64	0.17	689.26
RW-39	721.77	11/23/2020	ND	32.41	N/A	689.36
RW-39	721.77	12/26/2020	32.34	32.49	0.15	689.39
RW-39	721.77	1/19/2021	32.70	32.81	0.11	689.04
RW-39	721.77	1/25/2021	32.63	32.79	0.16	689.10
RW-39	721.77	2/1/2021	32.45	32.60	0.15	689.28
RW-39	721.77	2/8/2021	33.05	33.14	0.09	688.70
RW-39	721.77	2/16/2021	32.68	32.75	0.07	689.07
RW-39	721.77	2/22/2021	32.51	32.56	0.05	689.25
RW-39	721.77	3/4/2021	32.22	32.40	0.18	689.50
RW-39	721.77	3/8/2021	32.60	32.65	0.05	689.16
RW-39	721.77	3/15/2021	32.55	32.60	0.05	689.21
RW-40	722.94	10/8/2020	ND	33.34	N/A	689.60
RW-40	722.94	10/19/2020	ND	33.50	N/A	689.44
RW-40	722.94	11/9/2020	ND	33.42	N/A	689.52
RW-40	722.94	11/23/2020	ND	32.57	N/A	690.37
RW-40	722.94	12/26/2020	ND	33.30	N/A	689.64
RW-40	722.94	1/19/2021	ND	33.76	N/A	689.18
RW-40	722.94	1/25/2021	ND	33.69	N/A	689.25
RW-40	722.94	2/1/2021	ND	33.47	N/A	689.47
RW-40	722.94	2/8/2021	ND	34.11	N/A	688.83
RW-40	722.94	2/16/2021	ND	33.72	N/A	689.22
RW-40	722.94	2/22/2021	ND	33.57	N/A	689.37
RW-40	722.94	3/4/2021	ND	33.38	N/A	689.56
RW-40	722.94	3/8/2021	ND	33.64	N/A	689.30
RW-40	722.94	3/16/2021	ND	33.67	N/A	689.27
RW-41	735.51	11/23/2020	ND	Dry	N/A	Dry
RW-41	735.51	12/26/2020	ND	Dry	N/A	Dry
RW-41	735.51	2/1/2021	ND	Dry	N/A	Dry
RW-41	735.51	3/4/2021	ND	Dry	N/A	Dry
RW-42	733.80	11/23/2020	ND	Dry	N/A	Dry
RW-42	733.80	12/26/2020	ND	Dry	N/A	Dry
RW-42	733.80	1/25/2021	ND	Dry	N/A	Dry
RW-42	733.80	2/1/2021	ND	Dry	N/A	Dry
RW-42	733.80	2/8/2021	ND	Dry	N/A	Dry
RW-42	733.80	3/4/2021	ND	Dry	N/A	Dry

**Table 4  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-43	737.70	11/23/2020	37.26	41.71	4.45	699.25
RW-43	737.70	12/26/2020	ND	38.56	N/A	699.14
RW-43	737.70	2/1/2021	39.02	41.50	2.48	698.02
RW-43	737.70	3/4/2021	39.60	40.78	1.18	697.78
RW-44	738.21	11/23/2020	ND	Dry	N/A	Dry
RW-44	738.21	12/26/2020	ND	Dry	N/A	Dry
RW-44	738.21	1/19/2021	ND	Dry	N/A	Dry
RW-44	738.21	1/25/2021	ND	Dry	N/A	Dry
RW-44	738.21	2/1/2021	ND	Dry	N/A	Dry
RW-44	738.21	2/8/2021	ND	Dry	N/A	Dry
RW-44	738.21	2/22/2021	ND	Dry	N/A	Dry
RW-44	738.21	3/4/2021	ND	Dry	N/A	Dry
RW-45	722.04	11/23/2020	31.05	32.01	0.96	690.73
RW-45	722.04	12/26/2020	31.04	31.48	0.44	690.88
RW-45	722.04	2/1/2021	31.18	32.69	1.51	690.46
RW-45	722.04	3/4/2021	31.44	31.58	0.14	690.56
RW-46	716.92	11/23/2020	23.02	NW	>20.99	N/A
RW-46	716.92	12/26/2020	24.10	43.70	19.60	687.58
RW-46	716.92	1/25/2021	ND	Dry	N/A	Dry
RW-46	716.92	2/1/2021	26.60	43.43	16.83	685.82
RW-46	716.92	2/8/2021	ARP	ARP	ARP	ARP
RW-46	716.92	3/4/2021	26.46	41.42	14.96	686.46
RW-47	725.40	12/26/2020	27.60	40.80	13.20	694.27
RW-47	725.40	2/1/2021	29.94	35.94	6.00	693.85
RW-47	725.40	3/4/2021	30.01	33.49	3.48	694.46
RW-48	741.03	12/26/2020	33.82	34.54	0.72	707.02
RW-48	741.03	2/1/2021	48.55	51.58	3.03	691.67
RW-48	741.03	3/4/2021	48.48	51.78	3.30	691.67
RW-49	730.47	2/1/2021	36.13	37.90	1.77	693.87
RW-49	730.47	3/4/2021	36.87	37.68	0.81	693.38
RW-50	733.87	2/1/2021	40.40	40.89	0.49	693.34
RW-50	733.87	3/4/2021	40.31	41.26	0.95	693.30
RW-51	734.12	2/1/2021	40.18	42.23	2.05	693.39
RW-51	734.12	3/4/2021	40.17	42.64	2.47	693.29
RW-52	726.96	2/1/2021	28.96	35.10	6.14	696.36
RW-52	726.96	3/4/2021	30.08	33.98	3.90	695.84
RW-53	725.48	2/1/2021	27.42	30.00	2.58	697.37
RW-53	725.48	3/4/2021	28.02	30.80	2.78	696.72
RW-54	727.86	2/1/2021	29.96	43.34	13.38	694.32
RW-54	727.86	3/4/2021	32.95	38.43	5.48	693.44

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Summary of Recovery Well Gauging Data**

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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
RW-55	723.05	1/25/2021	27.15	35.11	7.96	693.77
RW-55	723.05	2/1/2021	26.91	35.48	8.57	693.85
RW-55	723.05	2/8/2021	ARP	ARP	ARP	ARP
RW-55	723.05	3/4/2021	27.12	31.21	4.09	694.84
RW-56	723.99	1/25/2021	31.85	31.86	0.01	692.14
RW-56	723.99	2/1/2021	31.76	31.91	0.15	692.19
RW-56	723.99	2/8/2021	ARP	ARP	ARP	ARP
RW-56	723.99	3/4/2021	29.18	30.17	0.99	694.55
RW-57	NM	3/15/2021	NM	NM	NM	NM
RW-58	NM	3/15/2021	27.92	50.10	22.18	--
RW-59	NM	3/15/2021	29.39	45.84	16.45	--
RW-60	NM	3/15/2021	27.04	43.89	16.85	--
Hydraulic Control Wells						
HCW-01	742.48	1/19/2021	ND	50.90	N/A	691.58
HCW-01	742.48	1/25/2021	ND	50.86	N/A	691.62
HCW-01	742.48	2/1/2021	50.14	52.59	2.45	691.69
HCW-01	742.48	2/8/2021	50.35	53.38	3.03	691.32
HCW-01	742.48	2/16/2021	50.02	53.08	3.06	691.64
HCW-01	742.48	2/22/2021	50.00	53.09	3.09	691.65
HCW-01	742.48	3/4/2021	49.90	53.14	3.24	691.71
HCW-01	742.48	3/8/2021	50.16	53.45	3.29	691.44
HCW-01	742.48	3/11/2021	50.10	53.34	3.24	691.51
HCW-01	742.48	3/15/2021	50.08	53.38	3.30	691.52
HCW-02	744.96	1/19/2021	ND	53.12	N/A	691.84
HCW-02	744.96	1/25/2021	ND	53.12	N/A	691.84
HCW-02	744.96	2/1/2021	ND	53.03	N/A	691.93
HCW-02	744.96	2/8/2021	ND	53.39	N/A	691.57
HCW-02	744.96	2/16/2021	ND	53.09	N/A	691.87
HCW-02	744.96	2/22/2021	ND	53.11	N/A	691.85
HCW-02	744.96	3/4/2021	ND	53.10	N/A	691.86
HCW-02	744.96	3/8/2021	ND	53.15	N/A	691.81
HCW-02	744.96	3/15/2021	ND	53.26	N/A	691.70
HCW-03	745.48	1/19/2021	ND	53.85	N/A	691.63
HCW-03	745.48	1/25/2021	ND	53.78	N/A	691.70
HCW-03	745.48	2/1/2021	ND	53.72	N/A	691.76
HCW-03	745.48	2/8/2021	ND	54.08	N/A	691.40
HCW-03	745.48	2/16/2021	ND	53.29	N/A	692.19
HCW-03	745.48	2/22/2021	ND	53.78	N/A	691.70
HCW-03	745.48	3/4/2021	ND	53.78	N/A	691.70
HCW-03	745.48	3/8/2021	ND	53.94	N/A	691.54
HCW-03	745.48	3/15/2021	53.89	53.92	0.03	691.58

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
HCW-04	746.00	1/19/2021	ND	54.43	N/A	691.57
HCW-04	746.00	1/25/2021	ND	54.39	N/A	691.61
HCW-04	746.00	2/1/2021	ND	54.29	N/A	691.71
HCW-04	746.00	2/8/2021	ND	54.64	N/A	691.36
HCW-04	746.00	2/16/2021	ND	54.34	N/A	691.66
HCW-04	746.00	2/22/2021	ND	54.34	N/A	691.66
HCW-04	746.00	3/4/2021	ND	54.33	N/A	691.67
HCW-04	746.00	3/8/2021	ND	52.43	N/A	693.57
HCW-04	746.00	3/15/2021	ND	54.56	N/A	691.44
HCW-05	743.82	1/19/2021	ND	52.22	N/A	691.60
HCW-05	743.82	1/25/2021	ND	52.18	N/A	691.64
HCW-05	743.82	2/1/2021	ND	52.07	N/A	691.75
HCW-05	743.82	2/8/2021	ND	52.44	N/A	691.38
HCW-05	743.82	2/16/2021	ND	52.12	N/A	691.70
HCW-05	743.82	2/2/2021	ND	52.13	N/A	691.69
HCW-05	743.82	3/4/2021	ND	52.11	N/A	691.71
HCW-05	743.82	3/8/2021	ND	52.22	N/A	691.60
HCW-05	743.82	3/15/2021	ND	52.36	N/A	691.46
HCW-06	743.70	1/19/2021	ND	52.10	N/A	691.60
HCW-06	743.70	1/25/2021	51.34	52.15	0.81	692.14
HCW-06	743.70	2/1/2021	51.81	52.19	0.38	691.79
HCW-06	743.70	2/8/2021	51.94	53.38	1.44	691.37
HCW-06	743.70	2/16/2021	51.59	52.88	1.29	691.76
HCW-06	743.70	2/22/2021	51.58	52.79	1.21	691.80
HCW-06	743.70	3/4/2021	51.53	52.71	1.18	691.85
HCW-06	743.70	3/8/2021	51.84	53.22	1.38	691.49
HCW-06	743.70	3/15/2021	51.91	53.25	1.34	691.43
HCW-07	742.86	1/19/2021	ND	51.23	N/A	691.63
HCW-07	742.86	1/25/2021	ND	51.13	N/A	691.73
HCW-07	742.86	2/1/2021	ND	51.00	N/A	691.86
HCW-07	742.86	2/8/2021	50.59	53.80	3.21	691.41
HCW-07	742.86	2/16/2021	49.92	53.99	4.07	691.85
HCW-07	742.86	2/22/2021	49.94	53.92	3.98	691.85
HCW-07	742.86	3/4/2021	49.86	53.84	3.98	691.93
HCW-07	742.86	3/8/2021	50.18	54.24	4.06	691.59
HCW-07	742.86	3/15/2021	50.32	54.43	4.11	691.44

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
HCW-08	742.96	1/19/2021	ND	51.42	N/A	691.54
HCW-08	742.96	1/25/2021	ND	51.20	N/A	691.76
HCW-08	742.96	2/1/2021	ND	51.07	N/A	691.89
HCW-08	742.96	2/8/2021	ND	51.54	N/A	691.42
HCW-08	742.96	2/16/2021	ND	51.16	N/A	691.80
HCW-08	742.96	2/22/2021	ND	51.16	N/A	691.80
HCW-08	742.96	3/4/2021	ND	51.12	N/A	691.84
HCW-08	742.96	3/8/2021	ND	51.28	N/A	691.68
HCW-08	742.96	3/15/2021	ND	51.63	N/A	691.33
HCW-09	744.49	1/19/2021	ND	52.70	N/A	691.79
HCW-09	744.49	1/25/2021	ND	52.50	N/A	691.99
HCW-09	744.49	2/1/2021	ND	52.36	N/A	692.13
HCW-09	744.49	2/8/2021	ND	53.03	N/A	691.46
HCW-09	744.49	2/16/2021	ND	52.66	N/A	691.83
HCW-09	744.49	2/22/2021	ND	52.65	N/A	691.84
HCW-09	744.49	3/4/2021	ND	52.57	N/A	691.92
HCW-09	744.49	3/8/2021	52.81	52.82	0.01	691.68
HCW-09	744.49	3/15/2021	ND	53.20	N/A	691.29
HCW-10	743.90	1/19/2021	50.52	50.62	0.10	693.36
HCW-10	743.90	1/25/2021	50.98	52.25	1.27	692.58
HCW-10	743.90	2/1/2021	50.39	50.40	0.01	693.51
HCW-10	743.90	2/8/2021	52.04	52.91	0.87	691.63
HCW-10	743.90	2/16/2021	51.79	53.03	1.24	691.78
HCW-10	743.90	2/22/2021	51.73	53.04	1.31	691.82
HCW-10	743.90	3/4/2021	51.14	52.68	1.54	692.35
HCW-10	743.90	3/8/2021	52.14	54.00	1.86	691.26
HCW-10	743.90	3/15/2021	52.46	54.48	2.02	690.90
HCW-11	741.26	1/19/2021	ND	49.32	N/A	691.94
HCW-11	741.26	1/25/2021	ND	48.45	N/A	692.81
HCW-11	741.26	2/1/2021	ND	48.30	N/A	692.96
HCW-11	741.26	2/8/2021	ND	49.65	N/A	691.61
HCW-11	741.26	2/16/2021	ND	49.43	N/A	691.83
HCW-11	741.26	2/22/2021	ND	49.42	N/A	691.84
HCW-11	741.26	3/4/2021	ND	48.65	N/A	692.61
HCW-11	741.26	3/8/2021	ND	49.92	N/A	691.34
HCW-11	741.26	3/15/2021	ND	14.51	N/A	726.75

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
HCW-12	740.75	1/19/2021	ND	23.93	N/A	716.82
HCW-12	740.75	1/25/2021	ND	43.24	N/A	697.51
HCW-12	740.75	2/1/2021	ND	Dry	N/A	Dry
HCW-12	740.75	2/8/2021	ND	Dry	N/A	Dry
HCW-12	740.75	2/16/2021	ND	47.86	N/A	692.89
HCW-12	740.75	2/22/2021	ND	48.06	N/A	692.69
HCW-12	740.75	3/4/2021	ND	48.04	N/A	692.71
HCW-12	740.75	3/8/2021	ND	48.28	N/A	692.47
HCW-12	740.75	3/15/2021	ND	48.44	N/A	692.31
HCW-13	741.53	1/25/2021	ND	46.81	N/A	694.72
HCW-13	741.53	2/1/2021	46.33	48.32	1.99	694.67
HCW-13	741.53	2/8/2021	ARP	ARP	ARP	ARP
HCW-13	741.53	2/16/2021	44.21	51.43	7.22	695.39
HCW-13	741.53	2/22/2021	44.31	51.43	7.12	695.31
HCW-13	741.53	3/4/2021	44.51	51.52	7.01	695.14
HCW-13	741.53	3/8/2021	44.74	51.56	6.82	694.96
HCW-13	741.53	3/15/2021	44.98	51.48	6.50	694.81
HCW-14	738.67	1/25/2021	ND	43.07	N/A	695.60
HCW-14	738.67	2/1/2021	ND	43.83	N/A	694.84
HCW-14	738.67	2/8/2021	44.25	44.44	0.19	694.37
HCW-14	738.67	2/16/2021	41.56	46.24	4.68	695.86
HCW-14	738.67	2/22/2021	41.29	Dry	N/A	N/A
HCW-14	738.67	3/4/2021	41.35	50.00	8.65	695.01
HCW-14	738.67	3/8/2021	41.68	NW	>8.32	N/A
HCW-14	738.67	3/15/2021	41.89	NW	>8.11	NM
HCW-15	736.71	1/25/2021	ND	40.88	N/A	695.83
HCW-15	736.71	2/1/2021	ND	41.62	N/A	695.09
HCW-15	736.71	2/8/2021	42.15	42.25	0.10	694.53
HCW-15	736.71	2/16/2021	39.13	51.43	12.30	694.28
HCW-15	736.71	2/22/2021	39.27	46.04	6.77	695.62
HCW-15	736.71	3/4/2021	39.21	46.10	6.89	695.65
HCW-15	736.71	3/8/2021	39.65	46.22	6.57	695.30
HCW-15	736.71	3/15/2021	39.95	46.11	6.16	695.11
HCW-16	736.35	1/25/2021	39.28	39.77	0.49	696.94
HCW-16	736.35	2/1/2021	39.38	40.96	1.58	696.55
HCW-16	736.35	2/8/2021	38.85	41.05	2.20	696.91
HCW-16	736.35	2/16/2021	38.69	41.09	2.40	697.02
HCW-16	736.35	2/22/2021	38.79	41.28	2.49	696.90
HCW-16	736.35	3/4/2021	38.80	41.70	2.90	696.78
HCW-16	736.35	3/8/2021	39.09	41.84	2.75	696.53
HCW-16	736.35	3/15/2021	39.33	41.87	2.54	696.34

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
HCW-17	733.19	1/25/2021	ND	34.90	N/A	698.29
HCW-17	733.19	2/1/2021	ND	36.49	N/A	696.70
HCW-17	733.19	2/8/2021	ND	36.49	N/A	696.70
HCW-17	733.19	2/16/2021	ND	36.48	N/A	696.71
HCW-17	733.19	2/22/2021	ND	35.76	N/A	697.43
HCW-17	733.19	3/4/2021	ND	35.78	N/A	697.41
HCW-17	733.19	3/8/2021	ND	35.88	N/A	697.31
HCW-17	733.19	3/15/2021	ND	35.80	N/A	697.39
HCW-18	731.12	1/25/2021	ND	34.58	N/A	696.54
HCW-18	731.12	2/1/2021	ND	31.97	N/A	699.15
HCW-18	731.12	2/8/2021	ND	31.98	N/A	699.14
HCW-18	731.12	2/16/2021	ND	31.99	N/A	699.13
HCW-18	731.12	2/22/2021	ND	32.05	N/A	699.07
HCW-18	731.12	3/4/2021	ND	32.02	N/A	699.10
HCW-18	731.12	3/8/2021	31.99	32.00	0.01	699.13
HCW-18	731.12	3/15/2021	31.96	31.99	0.03	699.15
HCW-19	732.00	1/25/2021	ND	34.10	N/A	697.90
HCW-19	732.00	2/1/2021	ND	34.22	N/A	697.78
HCW-19	732.00	2/8/2021	34.60	34.61	0.01	697.40
HCW-19	732.00	2/16/2021	34.43	34.44	0.01	697.57
HCW-19	732.00	2/22/2021	34.11	34.12	0.01	697.89
HCW-19	732.00	3/4/2021	NM	NM	NM	NM
HCW-19	732.00	3/8/2021	31.08	31.11	0.03	700.91
HCW-19	732.00	3/15/2021	34.20	34.22	0.02	697.79
HCW-20	731.69	1/25/2021	ND	34.34	N/A	697.35
HCW-20	731.69	2/1/2021	ND	34.33	N/A	697.36
HCW-20	731.69	2/8/2021	ND	34.82	N/A	696.87
HCW-20	731.69	2/16/2021	ND	34.59	N/A	697.10
HCW-20	731.69	2/22/2021	ND	34.44	N/A	697.25
HCW-20	731.69	3/4/2021	ND	34.09	N/A	697.60
HCW-20	731.69	3/8/2021	ND	34.37	N/A	697.32
HCW-20	731.69	3/15/2021	ND	34.35	N/A	697.34
HCW-21	730.02	1/19/2021	34.72	35.26	0.54	695.15
HCW-21	730.02	2/1/2021	ND	33.80	N/A	696.22
HCW-21	730.02	2/22/2021	ND	NM	NM	NM
HCW-21	730.02	3/4/2021	33.42	40.02	6.60	694.83
HCW-21	730.02	3/8/2021	ND	NM	NM	NM
HCW-21	730.02	3/15/2021	ND	NM	NM	NM

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Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
HCW-22	731.67	1/19/2021	ND	36.66	N/A	695.01
HCW-22	731.67	1/25/2021	ND	36.78	N/A	694.89
HCW-22	731.67	2/1/2021	ND	36.78	N/A	694.89
HCW-22	731.67	2/8/2021	ND	37.08	N/A	694.59
HCW-22	731.67	2/16/2021	ND	37.25	N/A	694.42
HCW-22	731.67	2/22/2021	ND	37.28	N/A	694.39
HCW-22	731.67	3/4/2021	ND	37.01	N/A	694.66
HCW-22	731.67	3/8/2021	ND	37.48	N/A	694.19
HCW-22	731.67	3/15/2021	ND	37.66	N/A	694.01
HCW-23	740.60	2/8/2021	ND	50.86	N/A	689.74
HCW-23	740.60	2/16/2021	ND	50.62	N/A	689.98
HCW-23	740.60	2/22/2021	ND	50.66	N/A	689.94
HCW-23	740.60	3/4/2021	ND	50.63	N/A	689.97
HCW-23	740.60	3/8/2021	ND	50.70	N/A	689.90
HCW-23	740.60	3/15/2021	ND	50.72	N/A	689.88
HCW-24	741.73	2/8/2021	ND	49.37	N/A	692.36
HCW-24	741.73	2/16/2021	ND	49.15	N/A	692.58
HCW-24	741.73	2/22/2021	ND	49.13	N/A	692.60
HCW-24	741.73	3/4/2021	ND	49.15	N/A	692.58
HCW-24	741.73	3/8/2021	ND	49.21	N/A	692.52
HCW-24	741.73	3/15/2021	ND	49.23	N/A	692.50
HCW-25	729.91	2/16/2021	32.79	33.94	1.15	696.81
HCW-25	729.91	2/22/2021	32.13	35.65	3.52	696.84
HCW-25	729.91	3/4/2021	35.15	37.47	2.32	694.14
HCW-25	729.91	3/8/2021	31.69	37.51	5.82	696.66
HCW-25	729.91	3/15/2021	31.69	37.42	5.73	696.68
HCW-26	730.52	2/16/2021	ND	34.17	N/A	696.35
HCW-26	730.52	2/22/2021	ND	34.21	N/A	696.31
HCW-26	730.52	3/4/2021	ND	34.13	N/A	696.39
HCW-26	730.52	3/8/2021	ND	34.30	N/A	696.22
HCW-26	730.52	3/15/2021	ND	34.35	N/A	696.17
HCW-27	729.91	2/16/2021	ND	33.94	N/A	695.97
HCW-27	729.91	2/22/2021	ND	34.10	N/A	695.81
HCW-27	729.91	3/4/2021	ND	34.14	N/A	695.77
HCW-27	729.91	3/8/2021	ND	34.28	N/A	695.63
HCW-27	729.91	3/15/2021	ND	34.38	N/A	695.53

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Colonial Pipeline Company  
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Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
NHCW-01	NM	2/16/2021	ND	29.89	N/A	NM
NHCW-01	NM	2/22/2021	ND	29.80	N/A	NM
NHCW-01	NM	3/4/2021	ND	29.95	N/A	NM
NHCW-01	NM	3/8/2021	ND	29.73	N/A	NM
NHCW-01	NM	3/15/2021	ND	29.74	N/A	NM
NHCW-02	NM	2/16/2021	ND	30.05	N/A	NM
NHCW-02	NM	2/22/2021	ND	29.94	N/A	NM
NHCW-02	NM	3/4/2021	ND	29.78	N/A	NM
NHCW-02	NM	3/8/2021	ND	29.92	N/A	NM
NHCW-02	NM	3/15/2021	ND	29.88	N/A	NM
NHCW-03	NM	2/16/2021	ND	28.57	N/A	NM
NHCW-03	NM	2/22/2021	ND	28.47	N/A	NM
NHCW-03	NM	3/4/2021	ND	28.31	N/A	NM
NHCW-03	NM	3/8/2021	ND	28.41	N/A	NM
NHCW-03	NM	3/15/2021	ND	28.32	N/A	NM
NHCW-04	NM	2/16/2021	ND	22.23	N/A	NM
NHCW-04	NM	2/22/2021	ND	27.11	N/A	NM
NHCW-04	NM	3/4/2021	ND	26.95	N/A	NM
NHCW-04	NM	3/8/2021	ND	27.02	N/A	NM
NHCW-04	NM	3/15/2021	ND	26.95	N/A	NM
NHCW-05	NM	2/16/2021	ND	26.51	N/A	NM
NHCW-05	NM	2/22/2021	ND	26.37	N/A	NM
NHCW-05	NM	3/4/2021	ND	26.20	N/A	NM
NHCW-05	NM	3/8/2021	ND	26.28	N/A	NM
NHCW-05	NM	3/15/2021	ND	26.20	N/A	NM
NHCW-06	NM	2/16/2021	ND	26.23	N/A	NM
NHCW-06	NM	2/22/2021	ND	26.07	N/A	NM
NHCW-06	NM	3/4/2021	ND	25.90	N/A	NM
NHCW-06	NM	3/8/2021	ND	29.96	N/A	NM
NHCW-06	NM	3/15/2021	ND	25.88	N/A	NM
NHCW-07	NM	2/16/2021	ND	25.48	N/A	NM
NHCW-07	NM	2/22/2021	ND	25.29	N/A	NM
NHCW-07	NM	3/4/2021	ND	25.11	N/A	NM
NHCW-07	NM	3/8/2021	ND	25.20	N/A	NM
NHCW-07	NM	3/15/2021	ND	25.12	N/A	NM
NHCW-08	NM	2/16/2021	ND	24.34	N/A	NM
NHCW-08	NM	2/22/2021	ND	24.17	N/A	NM
NHCW-08	NM	3/4/2021	ND	23.98	N/A	NM
NHCW-08	NM	3/8/2021	ND	24.03	N/A	NM
NHCW-08	NM	3/15/2021	ND	23.96	N/A	NM

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
NHCW-09	NM	2/16/2021	ND	23.89	N/A	NM
NHCW-09	NM	2/22/2021	ND	23.61	N/A	NM
NHCW-09	NM	3/4/2021	ND	23.37	N/A	NM
NHCW-09	NM	3/8/2021	ND	23.47	N/A	NM
NHCW-09	NM	3/15/2021	ND	23.40	N/A	NM
NHCW-10	NM	2/16/2021	ND	26.85	N/A	NM
NHCW-10	NM	2/22/2021	ND	23.68	N/A	NM
NHCW-10	NM	3/4/2021	ND	26.00	N/A	NM
NHCW-10	NM	3/8/2021	ND	26.11	N/A	NM
NHCW-10	NM	3/15/2021	ND	26.17	N/A	NM
NHCW-11	NM	2/16/2021	ND	23.12	N/A	NM
NHCW-11	NM	2/22/2021	ND	22.52	N/A	NM
NHCW-11	NM	3/4/2021	ND	23.73	N/A	NM
NHCW-11	NM	3/8/2021	ND	23.88	N/A	NM
NHCW-11	NM	3/15/2021	ND	23.95	N/A	NM
NHCW-12	NM	2/22/2021	ND	19.77	N/A	NM
NHCW-12	NM	3/4/2021	ND	20.92	N/A	NM
NHCW-12	NM	3/8/2021	21.16	21.17	0.01	NM
NHCW-12	NM	3/11/2021	21.17	21.34	0.17	NM
NHCW-12	NM	3/15/2021	21.24	21.58	0.34	NM
NHCW-13	NM	2/22/2021	ND	17.98	N/A	NM
NHCW-13	NM	3/4/2021	17.85	18.89	1.04	NM
NHCW-13	NM	3/8/2021	ND	NM	NM	NM
NHCW-13	NM	3/11/2021	18.06	19.75	1.69	NM
NHCW-13	NM	3/15/2021	18.12	20.18	2.06	NM
NHCW-14	NM	2/22/2021	ND	15.45	N/A	NM
NHCW-14	NM	3/4/2021	ND	16.78	N/A	NM
NHCW-14	NM	3/8/2021	ND	17.32	N/A	NM
NHCW-14	NM	3/15/2021	ND	17.44	N/A	NM
NHCW-15	NM	2/22/2021	ND	16.26	N/A	NM
NHCW-15	NM	3/4/2021	ND	17.06	N/A	NM
NHCW-15	NM	3/8/2021	ND	17.54	N/A	NM
NHCW-15	NM	3/11/2021	ND	17.57	N/A	NM
NHCW-15	NM	3/15/2021	ND	17.74	N/A	NM
NHCW-16	NM	2/22/2021	ND	20.32	N/A	NM
NHCW-16	NM	3/4/2021	ND	21.05	N/A	NM
NHCW-16	NM	3/8/2021	ND	21.35	N/A	NM
NHCW-16	NM	3/15/2021	ND	21.32	N/A	NM

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
NHCW-17	NM	2/22/2021	ND	22.42	N/A	NM
NHCW-17	NM	3/4/2021	ND	22.12	N/A	NM
NHCW-17	NM	3/8/2021	ND	NM	NM	NM
NHCW-17	NM	3/15/2021	ND	22.27	N/A	NM
NHCW-18	NM	2/22/2021	ND	25.78	N/A	NM
NHCW-18	NM	3/4/2021	ND	25.54	N/A	NM
NHCW-18	NM	3/8/2021	ND	26.37	N/A	NM
NHCW-18	NM	3/15/2021	ND	25.66	N/A	NM
NHCW-19	NM	2/16/2021	ND	24.04	N/A	NM
NHCW-19	NM	2/22/2021	ND	23.48	N/A	NM
NHCW-19	NM	3/4/2021	ND	23.35	N/A	NM
NHCW-19	NM	3/8/2021	ND	23.65	N/A	NM
NHCW-19	NM	3/15/2021	ND	23.72	N/A	NM
NHCW-20	NM	2/16/2021	ND	26.37	N/A	NM
NHCW-20	NM	2/22/2021	ND	25.86	N/A	NM
NHCW-20	NM	3/4/2021	ND	25.76	N/A	NM
NHCW-20	NM	3/8/2021	ND	25.92	N/A	NM
NHCW-20	NM	3/15/2021	ND	25.99	N/A	NM
NHCW-21	NM	2/16/2021	ND	31.29	N/A	NM
NHCW-21	NM	2/22/2021	ND	27.03	N/A	NM
NHCW-21	NM	3/4/2021	ND	NM	N/A	NM
NHCW-21	NM	3/8/2021	ND	26.97	N/A	NM
NHCW-21	NM	3/15/2021	ND	27.00	N/A	NM
NHCW-22	NM	2/16/2021	ND	29.58	N/A	NM
NHCW-22	NM	2/22/2021	ND	30.14	N/A	NM
NHCW-22	NM	3/4/2021	ND	30.11	N/A	NM
NHCW-22	NM	3/8/2021	ND	30.02	N/A	NM
NHCW-22	NM	3/15/2021	ND	29.98	N/A	NM
NHCW-23	NM	2/16/2021	ND	31.68	N/A	NM
NHCW-23	NM	2/22/2021	ND	32.55	N/A	NM
NHCW-23	NM	3/4/2021	ND	32.95	N/A	NM
NHCW-23	NM	3/8/2021	ND	32.40	N/A	NM
NHCW-23	NM	3/15/2021	ND	32.35	N/A	NM
NHCW-24	NM	2/16/2021	ND	34.91	N/A	NM
NHCW-24	NM	2/22/2021	ND	34.77	N/A	NM
NHCW-24	NM	3/4/2021	ND	NM	NM	NM
NHCW-24	NM	3/8/2021	ND	35.61	N/A	NM
NHCW-24	NM	3/15/2021	ND	34.54	N/A	NM

**Table 4  
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Well ID	Top Of Casing Elevation <sup>1</sup>	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation <sup>2</sup> (ft btoc)
NHCW-25	NM	2/16/2021	ND	36.40	N/A	NM
NHCW-25	NM	2/22/2021	ND	38.02	N/A	NM
NHCW-25	NM	3/4/2021	ND	38.22	N/A	NM
NHCW-25	NM	3/8/2021	ND	37.93	N/A	NM
NHCW-25	NM	3/15/2021	ND	37.82	N/A	NM
NHCW-26	NM	2/16/2021	ND	37.23	N/A	NM
NHCW-26	NM	2/22/2021	ND	39.46	N/A	NM
NHCW-26	NM	3/4/2021	ND	39.44	N/A	NM
NHCW-26	NM	3/8/2021	ND	39.45	N/A	NM
NHCW-26	NM	3/15/2021	ND	39.31	N/A	NM
NHCW-27	NM	2/16/2021	ND	NM	N/A	NM
NHCW-27	NM	2/22/2021	ND	40.08	N/A	NM
NHCW-27	NM	3/4/2021	ND	40.05	N/A	NM
NHCW-27	NM	3/8/2021	ND	40.06	N/A	NM
NHCW-27	NM	3/15/2021	ND	39.95	N/A	NM
NHCW-28	NM	2/16/2021	ND	38.22	N/A	NM
NHCW-28	NM	2/22/2021	ND	39.54	N/A	NM
NHCW-28	NM	3/4/2021	ND	38.51	N/A	NM
NHCW-28	NM	3/8/2021	ND	39.55	N/A	NM
NHCW-28	NM	3/15/2021	ND	39.45	N/A	NM
NHCW-29	NM	2/16/2021	ND	NM	N/A	NM
NHCW-29	NM	2/22/2021	ND	40.76	N/A	NM
NHCW-29	NM	3/4/2021	ND	38.73	N/A	NM
NHCW-29	NM	3/8/2021	ND	40.79	N/A	NM
NHCW-29	NM	3/15/2021	ND	40.68	N/A	NM

**Notes:**

ft btoc = Feet Below Top of Casing

N/A = Not Applicable

RW = Recovery Well

HCW = Hydraulic Control Well

NCHW = North Hydraulic Control Well

ND = No free product was detected in well

NW = No water measured; well contained product only

Dry = Well was dry; no free product or water detected in well

ARP = Active Recovery Pump in Well

<sup>1</sup> = Elevations surveyed in feet using the NAVD88 vertical datum

<sup>2</sup> = Corrected Groundwater Elevation = (Top of Casing - Depth to Water) + (Free Product Thickness x 0.7324)

\* = Well resurveyed























**Table 5  
Summary of Monitoring Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																			MADEP VPH (µg/L)						
				Lead	Benzene	Bromochloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
<b>NCAC 2L Standards</b>				<b>15</b>	<b>1</b>	<b>0.6</b>	<b>70</b>	<b>3000</b>	<b>70</b>	<b>3</b>	<b>100</b>	<b>0.4</b>	<b>70</b>	<b>600</b>	<b>70</b>	<b>5</b>	<b>20</b>	<b>6</b>	<b>70</b>	<b>0.7</b>	<b>600</b>	<b>400</b>	<b>400</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>400</b>	<b>700</b>	<b>200</b>	<b>NE</b>
<b>IMAC Standards</b>				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
92521851	MW-73_20210211	MW-73	02/11/2021	<b>14.9</b>	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<b>17.7</b>	<0.5	<0.5	<1.5	<1	<0.5	<b>192</b>	<100	<100	<b>262</b>
92527336	MW-73_20210311	MW-73	03/11/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<50	<50	<50	<50
92522267	MW-74_20210215	MW-74	02/15/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92526262	MW-74_20210308	MW-74	03/08/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92522267	MW-75_20210215	MW-75	02/15/2021	<b>31.8</b>	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92526262	MW-75_20210308	MW-75	03/08/2021	<b>16.3</b>	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92522265	MW-76_20210215	MW-76	02/15/2021	<b>10.4</b>	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92527474	MW-76_20210312	MW-76	03/12/2021	<b>8.9</b>	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<50	<50	<50	<50
92527474	DUP-1-20210312	MW-76	03/12/2021	<b>15.6</b>	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<50	<50	<50	<50
92526257	MW-77_20210308	MW-77	03/08/2021	<b>5.7</b>	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92526257	DUP-1-20210308	MW-77	03/08/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92526257	MW-78_20210308	MW-78	03/08/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92526616	MW-79_20210309	MW-79	03/09/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92526616	MW-80_20210309	MW-80	03/09/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92527326	MW-81_20210311	MW-81	03/11/2021	<5	<b>3.5</b>	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<b>2.9</b>	<b>2.9</b>	<0.5	<2	<0.5	<2	<0.5	<0.5	<b>12.5</b>	<b>12.3</b>	<0.5	<b>42.3</b>	<b>22</b>	<b>20.3</b>	<b>1640</b>	<b>263</b>	<b>93.5</b>	<b>170</b>
92527326	MW-82_20210311	MW-82	03/11/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<50	<50	<50	<50	
92527326	MW-83_20210311	MW-83	03/11/2021	<b>67.3</b>	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<50	<50	<50	<50	
92527326	MW-84_20210311	MW-84	03/11/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<b>1.4</b>	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<50	<50	<50	<50	

**Table 5  
Summary of Monitoring Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																		MADEP VPH (µg/L)							
				Lead	Benzene	Bromochloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				15	1	0.6	70	3000	70	3	100	0.4	70	600	70	5	20	6	70	0.7	600	400	400	500	500	500	400	700	200	NE
IMAC Standards				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Deep Monitoring Wells</b>																														
92515762	MW-7D (120-127)'	MW-07D	01/10/2021	18.8	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	66.9	<0.50	<0.50	<1.5	<1.0	<0.50	132	<100	<100	132	
92515762	DUP-6	MW-07D	01/10/2021	7	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	60.2	<0.50	<0.50	<1.5	<1.0	<0.50	127	<100	<100	127	
92515762	MW-7D (84-91)'	MW-07D	01/11/2021	15.5	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	146	<0.50	<0.50	<1.5	<1.0	<0.50	285	<100	<100	285	
92521237	MW-7D_20210209	MW-07D	02/09/2021	<5	<1	<1	<1	<2	<1	<2	<1	<1	<1	<1	<4	<1	<4	<1	<1	184	<1	<1	<3	<2	<1	360	<100	<100	360	
92526618	MW-07D_20210309	MW-07D	03/09/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	0.66	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92526264	MW-14D_20210308	MW-14D	03/08/2021	59.2	<0.5	<0.5	<0.5	<1	1.2	<1	<0.5	<0.5	0.51	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92515755	MW-25D (125-139)	MW-25D	01/09/2021	5.1	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	1.2	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100	
92515755	DUP-1-20210109	MW-25D	01/09/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	1.2	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100	
92515869	MW-25D (83-90)	MW-25D	01/11/2021	8.1	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	0.88	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	131	<0.50	<0.50	<1.5	<1.0	<0.50	118	<100	<100	118
92515869	MW-25D (108-115)	MW-25D	01/11/2021	7.9	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	0.91	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	34.1	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100
92515869	MW-25D (115-122)	MW-25D	01/11/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	0.97	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	3.8	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100
92515869	DUP-7	MW-25D	01/11/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	0.98	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	4	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100
92521871	MW-25D_20210211	MW-25D	02/11/2021	<5	1.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	0.69	1.5	<0.5	<2	<0.5	<2	<0.5	<0.5	19.9	1.6	<0.5	8.1	5.4	2.7	<100	<100	<100	115
92526977	MW-25D_20210310	MW-25D	03/10/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	1.2	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92514955	MW-36D (96.5-103.5)	MW-36D	01/05/2021	40.5	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	169	<0.50	<0.50	<1.5	<1.0	<0.50	280	<100	<100	318
92514955	DUP-2	MW-36D	01/05/2021	47.3	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	164	<0.50	<0.50	<1.5	<1.0	<0.50	281	<100	<100	318
92521237	MW-36D_20210209	MW-36D	02/09/2021	72.1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	1.1	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100
92526618	MW-36D_20210309	MW-36D	03/09/2021	76.9	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92516451	MW-57D (91-101)	MW-57D	01/12/2021	124	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	8	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100
92521237	MW-57D_20210209	MW-57D	02/09/2021	22.8	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92526618	MW-57D_20210309	MW-57D	03/09/2021	8.0	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	

**Table 5  
Summary of Monitoring Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																			MADEP VPH (µg/L)						
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				15	1	0.6	70	3000	70	3	100	0.4	70	600	70	5	20	6	70	0.7	600	400	400	500	500	500	400	700	200	NE
IMAC Standards				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
92515213	MW-59D (150-160)	MW-59D	01/06/2021	6.9	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	34.3	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100	
92515213	DUP-3	MW-59D	01/06/2021	9.9	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	35	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100	
92522123	MW-59D_20210212	MW-59D	02/12/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	23.3	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92526977	MW-59D_20210310	MW-59D	03/10/2021	5.7	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	13.1	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92514602	MW-61D(96.5-103.5)	MW-61D	01/04/2021	8.3	<0.50	2.8	<0.50	<1.0	11.3	<1.0	<0.50	0.65	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	2	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100	
92514602	DUP-1	MW-61D	01/04/2021	12	<0.50	3	<0.50	1.1	11.4	<1.0	<0.50	0.55	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	1.5	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100	
92521555	MW-61D_20210210	MW-61D	02/10/2021	<5	<0.5	3.3	<0.5	<1	12.9	<1	<0.5	0.89	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100		
92526977	MW-61D_20210310	MW-61D	03/10/2021	<5	<0.5	3.1	<0.5	<1	12.0	<1	<0.5	0.59	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100		
92515858	MW-62D (125-143)	MW-62D	01/07/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100		
92522265	MW-62D_20210215	MW-62D	02/15/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100		
92526264	MW-62D_20210308	MW-62D	03/08/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100		
92515642	MW-65D (115-150)	MW-65D	01/07/2021	12.2	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100		
92515543	DUP-1-20210107	MW-65D	01/07/2021	20.8	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100		
92522267	MW-65D_20210215	MW-65D	02/15/2021	9.6	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100		
92522267	DUP-1-20210215	MW-65D	02/15/2021	14.4	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	0.53	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92526262	MW-65D_20210308	MW-65D	03/08/2021	12	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100		
92527326	MW-79D_20210311	MW-79D	03/11/2021	10.8	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	7.2	<0.5	<0.5	<1.5	<1	<0.5	<50	<50	<50	<50	
92516451	Walker (101-108)	MW-14015 AC RD	01/13/2021	81.4	<2.0	7.5	<2.0	<4.0	403	4.9	<2.0	<2.0	<2.0	<2.0	<8.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<6.0	<4.0	<2.0	220	<100	<100	350		
92516451	Walker (48-55)	MW-14015 AC RD	01/13/2021	5.8	<0.50	3.8	5.4	<1.0	81.3	1.1	1.2	0.62	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	131		
92516451	Dup-9	MW-14015 AC RD	01/13/2021	6.2	<0.50	3.9	6.6	<1.0	78.7	<1.0	1.3	0.62	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	115		







**Table 5  
Summary of Monitoring Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																			MADEP VPH (µg/L)						
				Lead	Benzene	Bromochloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
<b>NCAC 2L Standards</b>				15	1	0.6	70	3000	70	3	100	0.4	70	600	70	5	20	6	70	0.7	600	400	400	500	500	500	400	700	200	NE
<b>IMAC Standards</b>				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
92516451	EB-8	N/A	01/12/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100	
92516451	FB-8	N/A	01/12/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100	
92516451	EB-9	N/A	01/13/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100	
92516451	FB-9	N/A	01/13/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<100	<100	<100	<100	
92520901	FB-1-20210208	N/A	02/08/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92521237	FB-1-20210209	N/A	02/09/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92521851	FB-1-20210211	N/A	02/11/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92522123	EB-1-20210212	N/A	02/12/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92522123	FB-1-20210212	N/A	02/12/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92521555	EB-1-20210210	N/A	02/10/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92521555	FB-1-20210210	N/A	02/10/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92522267	EB-1-20210215	N/A	02/15/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92522267	FB-1-20210215	N/A	02/15/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92526264	EB-1-20210308	N/A	03/08/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92526264	FB-1-20210308	N/A	03/08/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92526616	FB-1-20210309	N/A	03/09/2021	<5.0	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92526618	EB-1-20210309	N/A	03/09/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92526989	FB-1-20210310	N/A	03/10/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92526977	EB-1-20210310	N/A	03/10/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<100	<100	<100	<100	
92527326	EB-1-20210311	N/A	03/11/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<50	<50	<50	<50	
92527326	FB-1-20210311	N/A	03/11/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<50	<50	<50	<50	
92527475	FB-1-20210312	N/A	03/12/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1	<0.5	<50	<50	<50	<50	

**Notes:**  
NA - Not Analyzed  
NE - Not Established  
All units reported in micrograms per liter (µg/L)  
Only detected constituents are shown  
NCAC 2L Standard - North Carolina 15A NCAC 2L Groundwater Standard  
"<" - Indicates compound was not detected above laboratory reporting limit  
Lead - analyzed by Method 6010D  
VOCs - Volatile Organic Compounds analyzed by Method SM 6200B  
MADEP - Massachusetts Department of Environmental Protection; as required by North Carolina Department of Environmental Quality  
VPH - Volatile Petroleum Hydrocarbon  
Bold values indicate compound was detected above laboratory reporting limit  
Blue shading indicates an exceedance of NCAC 2L Standard  
Samples beginning with "DUP" are field duplicates and co-samples of the preceding row  
IMAC - Interim Maximum Allowable Concentration  
ID - Identification

**Table 6  
Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92525139	13712_HC_RD_20210302	03/02/2021	38.2	<0.50	<0.50
92492043	13736_PE_Dr	08/22/2020	NA	NA	NA
92492904	13800_H/C_Rd	08/27/2020	109	<0.50	<0.50
92493896	13800_HC_RD	09/02/2020	169	<0.50	<0.50
92495067	13800_HC_RD	09/10/2020	55.2	<0.50	<0.50
92495939	13800_HC_RD_20200916	09/16/2020	67	<0.50	<0.50
92497411	13800_HC_RD_20200924	09/24/2020	23	<0.50	<0.50
92498538	13800_HC_RD	10/01/2020	6.5	<0.50	<0.50
92499668	13800_HC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500721	13800_HC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50
92501794	13800_HC_RD_20201022	10/22/2020	<5.0	<0.50	<0.50
92502945	13800_HC_RD_20201029	10/29/2020	<5.0	<0.50	<0.50
92504298	13800_HC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92506033	13800_HC_RD	11/12/2020	5.4	<0.50	<0.50
92507404	13800_HC_RD	11/19/2020	5.7	<0.50	<0.50
92507391	FD-111820	11/19/2020	5.4	<0.50	<0.50
92508024	13800_HC_RD_20201124	11/24/2020	<5.0	<0.50	<0.50
92508707	13800_HC_RD_20201201	12/01/2020	7.8	<0.50	<0.50
92510221	13800_HC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50
92512037	13800_HC_RD_20201215	12/15/2020	<5.0	<0.50	<0.50
92513363	13800_HC_RD_20201222	12/22/2020	<5.0	<0.50	<0.50
92513987	13800_HC_RD_20201229	12/29/2020	<5.0	<0.50	<0.50
92514747	13800_HC_RD_20210105	01/05/2021	<5.0	<0.50	<0.50
92516194	13800_HC_RD_2021112	01/12/2021	<5.0	<0.50	<0.50
92517235	13800_HC_RD_2021119	01/19/2021	<5.0	<0.50	<0.50
92518577	13800_HC_RD_2021126	01/26/2021	16.9	<0.50	<0.50
92519756	13800_HC_RD_20210202	02/02/2021	<5.0	<0.50	<0.50
92521088	13800_HC_RD_20210209	02/09/2021	5.1	<0.50	<0.50
92522441	13800_HC_RD_20210216	02/16/2021	<5.0	<0.50	<0.50
92523569	13800_HC_RD_20210223	02/23/2021	<5.0	<0.50	<0.50
92525141	13800_HC_RD_20210302	03/02/2021	<5.0	<0.50	<0.50
92526632	13800_HC_RD_20210309	03/09/2021	<5.0	<0.50	<0.50
92527865	13800_HC_RD_20210316	03/16/2021	12.1	<0.50	<0.50

**Table 6**  
**Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92491028	13822_HC_Rd	08/16/2020	<b>53.0</b>	<0.50	<0.50
92492032	13822_HC_Rd	08/21/2020	<b>14.2</b>	NA	NA
92492033	FD_08212020	08/21/2020	<b>10.3</b>	NA	NA
92493878	13822_HC_RD	09/02/2020	<b>11.6</b>	<0.50	<0.50
92495055	13822_HC_RD	09/10/2020	<5.0	<0.50	<0.50
92495069	FD-091020	09/10/2020	<5.0	<0.50	<0.50
92495927	13822_HC_RD_20200916	09/16/2020	<b>14.3</b>	<0.50	<0.50
92497407	13822_HC_RD_20200924	09/24/2020	<b>8.9</b>	<0.50	<0.50
92491385	13831_Sims_Rd	08/17/2020	<5.0	<0.50	<0.50
92492683	13831_Sims_Rd	08/25/2020	<5.0	<0.50	<0.50
92494137	13831_SIMS_RD	09/03/2020	<5.0	<0.50	<0.50
92525138	13831_SIMS_RD_20210302	03/02/2021	<5.0	<0.50	<0.50

**Table 6  
Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92491367	13835_AC_Rd	08/17/2020	<5.0	<0.50	<0.50
92492460	13835_AC_Rd	08/25/2020	<5.0	<0.50	<0.50
92492469	FD1-08252020	08/25/2020	<5.0	<0.50	<0.50
92494135	13835_AC_RD	09/03/2020	<5.0	<0.50	<0.50
92495191	13835_AC_RD	09/11/2020	<5.0	<0.50	<0.50
92495943	13835_AC_RD_20200916	09/16/2020	<5.0	<b>1.7</b>	<b>7.4</b>
92497409	13835_AC_RD_20200924	09/24/2020	<b>16.1</b>	<0.50	<0.50
92498537	13835_AC_RD	10/01/2020	<5.0	<0.50	<0.50
92498539	FD-100120	10/01/2020	<5.0	<0.50	<0.50
92499665	13835_AC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500725	13835_AC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50
92500731	DUP-1	10/15/2020	<5.0	<0.50	<0.50
92501805	13835_AC_RD_20201022	10/22/2020	<5.0	<0.50	<0.50
92502955	13835_AC_RD_20201029	10/29/2020	<5.0	<0.50	<0.50
92502957	DUP-1	10/29/2020	<5.0	<0.50	<0.50
92504283	13835_AC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92506030	13835_AC_RD	11/12/2020	<5.0	<0.50	<0.50
92507400	13835_AC_RD	11/19/2020	<5.0	<0.50	<0.50
92508017	13835_AC_RD_20201124	11/24/2020	<5.0	<0.50	<0.50
92508716	13835_AC_Rd_20201201	12/01/2020	<5.0	<0.50	<0.50
92510233	13835_AC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50
92512027	13835_AC_RD_20201215	12/15/2020	<5.0	<0.50	<0.50
92512046	DUP-1	12/15/2020	<5.0	<0.50	<0.50
92513354	13835_AC_RD_20201222	12/22/2020	<5.0	<0.50	<0.50
92513978	13835_AC_RD_20201229	12/29/2020	<5.0	<0.50	<0.50
92514756	13835_AC_RD_20210105	01/05/2021	<5.0	<0.50	<0.50
92516191	13835_AC_RD_20211112	01/12/2021	<5.0	<0.50	<0.50
92516192	DUP-1	01/12/2021	<5.0	<0.50	<0.50
92517234	13835_AC_RD_20211119	01/19/2021	<5.0	<0.50	<0.50
92518610	13835_AC_RD_20211126	01/26/2021	<b>15.4</b>	<0.50	<0.50
92519760	13835_AC_RD_20210202	02/02/2021	<5.0	<0.50	<0.50
92521099	13835_AC_RD_20210209	02/09/2021	<b>15.1</b>	<0.50	<0.50

**Table 6  
Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92522436	13835_AC_RD_20210216	02/16/2021	<5.0	<0.50	<0.50
92522438	DUP-1	02/16/2021	<5.0	<0.50	<b>0.62</b>
92523572	13835_AC_RD_20210223	02/23/2021	<5.0	<0.50	<b>0.57</b>
92525131	13835_AC_RD_20210302	03/02/2021	<5.0	<0.50	<b>0.5</b>
92526625	13835_AC_RD_20210309	03/09/2021	<b>13.5</b>	<0.50	<b>0.54</b>
92527864	13835_AC_RD_20210316	03/16/2021	<b>6.2</b>	<0.50	<b>0.51</b>
92491363	13901_Sims_Rd	08/17/2020	<5.0	<0.50	<0.50
92491368	FD1_081720	08/17/2020	<5.0	<0.50	<0.50
92492466	13901_Sims_Rd	08/25/2020	<5.0	<0.50	<0.50
92494138	13901_SIMS_RD	09/03/2020	<5.0	<0.50	<0.50
92525133	13901_Sims_RD_20210302	03/02/2021	<5.0	<0.50	<0.50
92491259	13920_Sims_Rd	08/17/2020	<5.0	<0.50	<0.50
92492462	13920_Sims_Rd	08/25/2020	<5.0	<0.50	<0.50
92494130	13920_SIMS_RD	09/03/2020	<5.0	<0.50	<0.50
92525130	13920_SIMS_RD_20210302	03/02/2021	<5.0	<0.50	<0.50
92491360	13923_AC_Rd	08/17/2020	<5.0	<0.50	<0.50
92492465	13923_AC_Rd	08/25/2020	<5.0	<0.50	<0.50
92494139	13923_AC_RD	09/03/2020	<5.0	<0.50	<0.50
92495190	13923_AC_RD	09/11/2020	<5.0	<0.50	<0.50
92495938	13923_AC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497416	13923_AC_RD_20200924	09/24/2020	<b>5.5</b>	<0.50	<0.50
92498533	13923_AC_RD	10/01/2020	<5.0	<0.50	<0.50
92499672	13923_AC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50

**Table 6**  
**Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92491030	13926A_HC_Rd	08/16/2020	<5.0	<0.50	<0.50
92492029	13926A_HC_Rd	08/21/2020	<5.0	NA	<0.50
92493902	13926A_HC_RD	09/02/2020	<5.0	<0.50	<0.50
92495062	13926A_HC_RD	09/10/2020	<5.0	<0.50	<0.50
92495945	13926A_HC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497401	13926A_HC_RD_20200924	09/24/2020	<5.0	<0.50	<0.50
92498130	13926A_HC_RD_20200930	09/30/2020	<5.0	<0.50	<0.50
92499670	13926A_HC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500718	13926A_HC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50
92501815	13926A_HC_RD_20201022	10/22/2020	<b>5.2</b>	<0.50	<0.50
92502951	13926A_HC_RD_20201029	10/29/2020	<b>6.6</b>	<0.50	<0.50
92504292	13926A_HC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92506028	13926A_HC_RD	11/12/2020	<5.0	<0.50	<b>8.2</b>
92507401	13926A_HC_RD	11/19/2020	<b>5.8</b>	<0.50	<0.50
92508011	13926A_HC_RD_20201124	11/24/2020	<5.0	<0.50	<0.50
92508712	13926A_HC_RD_20201201	12/01/2020	<b>5.9</b>	<0.50	<0.50
92510243	13926A_HC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50
92512042	13926A_HC_RD_20201215	12/15/2020	<5.0	<0.50	<0.50
92513351	13926A_HC_RD_20201222	12/22/2020	<5.0	<0.50	<0.50
92513975	13926A_HC_RD_20201229	12/29/2020	<5.0	<0.50	<0.50
92514754	13926A_HC_RD_20210105	01/05/2021	<5.0	<0.50	<0.50
92516196	13926A_HC_RD_2021112	01/12/2021	<5.0	<0.50	<0.50
92517224	13926A_HC_RD_2021119	01/19/2021	<5.0	<0.50	<0.50
92518620	13926A_HC_RD_2021126	01/26/2021	<5.0	<0.50	<0.50
92519764	13926A_HC_RD_20210202	02/02/2021	<5.0	<0.50	<0.50
92521095	13926A_HC_RD_20210209	02/09/2021	<b>24.2</b>	<0.50	<0.50
92522435	13926A_HC_RD_20210216	02/16/2021	<5.0	<0.50	<0.50
92523580	13926A_HC_RD_20210223	02/23/2021	<5.0	<0.50	<0.50
92525137	13926A_HC_RD_20210302	03/02/2021	<5.0	<0.50	<0.50
92526622	13926A_HC_RD_20210309	03/09/2021	<b>7.3</b>	<0.50	<0.50
92527881	13926A_HC_RD_20210316	03/16/2021	<5.0	<0.50	<0.50

**Table 6  
Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92491030	13926B_HC_Rd	08/16/2020	<5.0	<0.50	<b>8.9</b>
92492030	13926B_HC_Rd	08/21/2020	NA	NA	<b>8.4</b>
92493891	13926B_HC_RD	09/02/2020	<5.0	<0.50	<b>9.4</b>
92495059	13926B_HC_RD	09/10/2020	<5.0	<0.50	<b>7.6</b>
92495941	13926B_HC_RD_20200916	09/16/2020	<5.0	<0.50	<b>9.6</b>
92495930	Field_Duplicate 09-16-2020	09/16/2020	<5.0	<0.50	<b>10.1</b>
92497412	13926B_HC_RD_20200924	09/24/2020	<5.0	<0.50	<b>9.8</b>
92498128	13926B_HC_RD_20200930	09/30/2020	<5.0	<0.50	<b>6.3</b>
92499661	13926B_HC_RD_20201008	10/08/2020	<5.0	<0.50	<b>9.3</b>
92500720	13926B_HC_RD_20201015	10/15/2020	<5.0	<0.50	<b>8.9</b>
92501809	13926B_HC_RD_20201022	10/22/2020	<5.0	<0.50	<b>8.7</b>
92502943	13926B_HC_RD_20201029	10/29/2020	<5.0	<0.50	<b>8.9</b>
92504284	13926B_HC_RD_20201105	11/05/2020	<5.0	<0.50	<b>9.2</b>
92506050	13926B_HC_RD	11/12/2020	<5.0	<0.50	<0.50
92507398	13926B_HC_RD	11/19/2020	<5.0	<0.50	<b>7</b>
92508014	13926B_HC_RD_20201124	11/24/2020	<5.0	<0.50	<b>8.7</b>
92508823	13926B_HC_RD_20201201	12/01/2020	<b>6.6</b>	<0.50	<b>6.8</b>
92510237	13926B_HC_RD_20201208	12/08/2020	<5.0	<0.50	<b>9.2</b>
92512044	13926B_HC_RD_20201215	12/15/2020	<5.0	<0.50	<b>8.5</b>
92513370	13926B_HC_RD_20201222	12/22/2020	<5.0	<0.50	<b>6.4</b>
92513986	13926B_HC_RD_20201229	12/29/2020	<5.0	<0.50	<b>7.5</b>
92514757	13926B_HC_RD_20210105	01/05/2021	<5.0	<0.50	<b>11.5</b>
92514760	DUP-1	01/05/2021	<5.0	<0.50	<b>11.7</b>
92516195	13926B_HC_RD_2021112	01/12/2021	<5.0	<0.50	<b>9.7</b>
92517242	13926B_HC_RD_2021119	01/19/2021	<5.0	<0.50	<b>8.8</b>
92517218	DUP-1	01/19/2021	<5.0	<0.50	<b>8.6</b>
92518587	13926B_HC_RD_2021126	01/26/2021	<5.0	<0.50	<b>7.9</b>
92519742	13926B_HC_RD_20210202	02/02/2021	<5.0	<0.50	<b>9</b>
92521084	13926B_HC_RD_20210209	02/09/2021	<5.0	<0.50	<b>8.9</b>
92522444	13926B_HC_RD_20210216	02/16/2021	<5.0	<0.50	<b>9</b>
92523576	13926B_HC_RD_20210223	02/23/2021	<5.0	<0.50	<b>9.3</b>
92523574	Dup-1	02/23/2021	<5.0	<0.50	<b>9.7</b>

**Table 6**  
**Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92525136	13926B_HC_RD_20210302	03/02/2021	<5.0	<0.50	<b>7.8</b>
92525144	DUP-1	03/02/2021	<5.0	<0.50	<b>0.54</b>
92526624	13926B_HC_RD_20210309	03/09/2021	<5.0	<0.50	<b>9.3</b>
92527878	13926B_HC_RD_20210316	03/16/2021	<5.0	<0.50	<b>8.7</b>
92492031	13937_AC_Rd	08/21/2020	<5.0	<0.50	<0.50
92492463	13937_AC_Rd	08/25/2020	<5.0	<0.50	<0.50
92494129	13937_AC_RD	09/03/2020	<5.0	<0.50	<0.50
92494126	FD-090320	09/03/2020	<0.50	<0.50	<0.50
92495051	13937_AC_RD	09/10/2020	<5.0	<0.50	<0.50
92495928	13937_AC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497405	13937_AC_RD_20200924	09/24/2020	<5.0	<0.50	<0.50
92498536	13937_AC_RD	10/01/2020	<5.0	<0.50	<0.50
92499667	13937_AC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92491152	13945_AC_Rd	08/17/2020	<5.0	<0.50	<0.50
92492461	13945_AC_Rd	08/25/2020	<5.0	<0.50	<0.50
92493888	13945_AC_RD	09/02/2020	<5.0	<0.50	<0.50
92495063	13945_AC_RD	09/10/2020	<5.0	<0.50	<0.50
92495935	13945_AC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497410	13945_AC_RD_20200924	09/24/2020	<5.0	<0.50	<0.50
92498532	13945_AC_RD	10/01/2020	<5.0	<0.50	<0.50
92499669	13945_AC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500726	13945_AC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50
92501817	DUP-1	10/22/2020	<5.0	<0.50	<0.50
92501807	13945_AC_RD_20201022	10/22/2020	<5.0	<0.50	<0.50
92502946	13945_AC_RD_20201029	10/29/2020	<5.0	<0.50	<0.50
92504280	13945_AC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92506044	13945_AC_RD	11/12/2020	<5.0	<0.50	<0.50
92507397	13945_AC_RD	11/19/2020	<5.0	<0.50	<0.50
92508007	13945_AC_RD_20201124	11/24/2020	<5.0	<0.50	<0.50
92508713	13945_AC_Rd_20201201	12/01/2020	<5.0	<0.50	<0.50
92508822	DUP-1	12/01/2020	<0.50	<0.50	<0.50
92510208	13945_AC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50
92525142	14000_LAWTHER_RD_20210302	03/02/2021	<5.0	<0.50	<b>1.2</b>

**Table 6**  
**Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92491555	14015 ASBURY CHAPEL RD	08/18/2020	<5.0	<0.50	<0.50
92492468	14015 AC Rd	08/25/2020	<5.0	<0.50	<b>1.5</b>
92493886	14015 AC RD	09/02/2020	<5.0	<0.50	<b>4.4</b>
92495058	14015 AC RD	09/10/2020	<5.0	<0.50	<0.50
92495932	14015 AC RD 20200916	09/16/2020	<5.0	<0.50	<0.50
92497403	14015 AC RD 20200924	09/24/2020	<5.0	<0.50	<0.50
92498133	14015 AC RD 20200930	09/30/2020	<5.0	<0.50	<0.50
92499671	14015 AC RD 20201008	10/08/2020	<5.0	<0.50	<0.50
92499673	DUP-1	10/08/2020	<5.0	<0.50	<0.50
92500727	14015 AC RD 20201015	10/15/2020	<5.0	<0.50	<0.50
92501814	14015 AC RD 20201022	10/22/2020	<5.0	<0.50	<0.50
92502948	14015 AC RD 20201029	10/29/2020	<5.0	<0.50	<0.50
92504297	14015 AC RD 20201105	11/05/2020	<5.0	<0.50	<0.50
92504300	DUP-1	11/05/2020	<5.0	<0.50	<0.50
92506055	14015 AC RD	11/12/2020	<5.0	<0.50	<0.50
92506038	FD-111220	11/12/2020	<5.0	<0.50	<0.50
92491361	14024 Sims Rd	08/17/2020	<5.0	<0.50	<0.50
92492464	14024 Sims Rd	08/25/2020	<5.0	<0.50	<0.50
92494133	14024 SIMS RD	09/03/2020	<5.0	<0.50	<0.50
92525135	14024 SIMS RD 20210302	03/02/2021	<5.0	<0.50	<0.50
92493111	14037 Lawther Rd	08/30/2020	<b>37.3</b>	<0.50	<0.50
92495188	14037 LAWTHER RD	09/11/2020	<b>23.1</b>	<0.50	<0.50
92491027	14108 HC Rd	08/15/2020	<5.0	<0.50	<0.50
92492688	14108 HC Rd	08/25/2020	<5.0	<0.50	<0.50

**Table 6  
Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
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Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92491029	14226_HC_Rd	08/16/2020	<5.0	<0.50	<0.50
92492685	14226_HC_Rd	08/25/2020	<5.0	<0.50	<0.50
92493881	14226_HC_RD	09/02/2020	<5.0	<0.50	<0.50
92493905	FD_09_02_20	09/02/2020	<5.0	<0.50	<0.50
92495187	14226_HC_RD	09/11/2020	<5.0	<0.50	<0.50
92495193	FD-091120	09/11/2020	<5.0	<0.50	<0.50
92495934	14226_HC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497413	14226_HC_RD_20200924	09/24/2020	<5.0	<0.50	<0.50
92497418	DUP-1	09/24/2020	<5.0	<0.50	<0.50
92498535	14226_HC_RD	10/01/2020	<b>6.1</b>	<0.50	<0.50
92499662	14226_HC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500723	14226_HC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50
92501813	14226_HC_RD_20201022	10/22/2020	<5.0	<0.50	<0.50
92502953	14226_HC_RD_20201029	10/29/2020	<5.0	<0.50	<0.50
92504286	14226_HC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92506051	14226_HC_RD	11/12/2020	<5.0	<0.50	<0.50
92507396	14226_HC_RD	11/19/2020	<5.0	<0.50	<0.50
92508028	14226_HC_RD_20201124	11/24/2020	<5.0	<0.50	<0.50
92508021	DUP-1	11/24/2020	<5.0	<0.50	<0.50
92508835	14226_HC_RD_20201201	12/01/2020	<5.0	<0.50	<0.50
92510240	14226_HC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50
92510245	DUP-1	12/08/2020	<5.0	<0.50	<0.50
92511927	14226_HC_RD_20201215	12/15/2020	<5.0	<0.50	<0.50
92513359	14226_HC_RD_20201222	12/22/2020	<5.0	<0.50	<0.50
92513988	14226_HC_RD_20201229	12/29/2020	<5.0	<0.50	<0.50
92513991	DUP-1	12/29/2020	<5.0	<0.50	<0.50

**Table 6**  
**Summary of Water Supply Well Sampling Results**

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Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92514751	14226_HC_RD_20210105	01/05/2021	<5.0	<0.50	<0.50
92516188	14226_HC_RD_2021112	01/12/2021	<5.0	<0.50	<0.50
92517237	14226_HC_RD_2021119	01/19/2021	NA	<0.50	<0.50
92518581	14226_HC_RD_2021126	01/26/2021	<5.0	<0.50	<0.50
92519752	14226_HC_RD_20210202	02/02/2021	<5.0	<0.50	<0.50
92519734	Dup-1	02/02/2021	<5.0	<0.50	<0.50
92521102	14226_HC_RD_20210209	02/09/2021	<5.0	<0.50	<0.50
92521104	DUP-1	02/09/2021	<5.0	<0.50	<0.50
92522445	14226_HC_RD_20210216	02/16/2021	<5.0	<0.50	<0.50
92523584	14226_HC_RD_20210223	02/23/2021	<5.0	<0.50	<0.50
92525132	14226_HC_RD_20210302	03/02/2021	<5.0	<0.50	<0.50
92526623	14226_HC_RD_20210309	03/09/2021	<5.0	<0.50	<0.50
92527853	14226_HC_RD_20210316	03/16/2021	<5.0	<0.50	<0.50
92527887	DUP-1	03/16/2021	<5.0	<0.50	<0.50

**Table 6  
Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
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Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92495192	14401_HC_RD	09/11/2020	<5.0	<0.50	<0.50
92495926	14401_HC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497414	14401_HC_RD_20200924	09/24/2020	<5.0	<0.50	<0.50
92498534	14401_HC_RD	10/01/2020	<5.0	<0.50	<0.50
92499663	14401_HC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500730	14401_HC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50
92501803	14401_HC_RD_20201022	10/22/2020	<5.0	<0.50	<0.50
92502940	14401_HC_RD_20201029	10/29/2020	<5.0	<0.50	<0.50
92504290	14401_HC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92506047	14401_HC_RD	11/12/2020	<5.0	<0.50	<0.50
92507394	14401_HC_RD	11/19/2020	<5.0	<0.50	<0.50
92508004	14401_HC_RD_20201124	11/24/2020	<5.0	<0.50	<0.50
92508717	14401_HC_RD_20201201	12/01/2020	<b>5.8</b>	<0.50	<0.50
92510211	14401_HC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50
92512045	14401_HC_RD_20201215	12/15/2020	<5.0	<0.50	<0.50
92513372	14401_HC_RD_20201222	12/22/2020	<5.0	<0.50	<0.50
92513342	Dup-1	12/22/2020	<5.0	<0.50	<0.50
92513981	14401_HC_RD_20201229	12/29/2020	<5.0	<0.50	<0.50
92514759	14401_HC_RD_20210105	01/05/2021	<5.0	<0.50	<0.50
92516197	14401_HC_RD_2021112	01/12/2021	<5.0	<0.50	<0.50
92517232	14401_HC_RD_2021119	01/19/2021	<5.0	<0.50	<0.50
92518569	14401_HC_RD_20211126	01/26/2021	<5.0	<0.50	<0.50
92518564	DUP-1	01/26/2021	<5.0	<0.50	<0.50
92519739	14401_HC_RD_20210202	02/02/2021	<5.0	<0.50	<0.50
92521093	14401_HC_RD_20210209	02/09/2021	<5.0	<0.50	<0.50
92522431	14401_HC_RD_20210216	02/16/2021	<5.0	<0.50	<0.50
92523581	14401_HC_RD_20210223	02/23/2021	<5.0	<0.50	<0.50
92525134	14401_HC_RD_20210302	03/02/2021	<b>10.4</b>	<0.50	<0.50
92526626	14401_HC_RD_20210309	03/09/2021	<5.0	<0.50	<0.50
92526621	DUP-1	03/09/2021	<5.0	<0.50	<0.50
92527871	14401_HC_RD_20210316	03/16/2021	<5.0	<0.50	<0.50
92492048	15104_PL_Dr	08/22/2020	NA	NA	NA
92492044	15110_PL_Dr	08/22/2020	NA	NA	NA
92492047	15120_PL_Dr	08/22/2020	NA	NA	NA

**Table 6**  
**Summary of Water Supply Well Sampling Results**

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Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92492046	15128_PL_Dr	08/22/2020	NA	NA	NA
92492045	15136_PL_Dr	08/22/2020	NA	NA	NA
92491031	16366_HC_Rd	08/16/2020	<5.0	<0.50	<0.50
92492689	HOA_Lawn	08/26/2020	<5.0	<0.50	<0.50
92492686	FD1_08262020	08/26/2020	<5.0	<0.50	<0.50
92493898	HOA_LAWN	09/02/2020	<5.0	<0.50	<0.50
92495066	HOA_LAWN	09/10/2020	<5.0	<0.50	<0.50
<b>QC Data</b>					
92497418	FB-1	09/24/2020	<5.0	<0.50	<0.50
92492469	Field Blank	08/25/2020	<5.0	<0.50	<0.50
92492905	Field Blank	08/27/2020	<5.0	<0.50	<0.50
92492033	Field_Blank	08/21/2020	<5.0	NA	NA
92492686	Field_Blank	08/26/2020	<5.0	<0.50	<0.50
92493905	Field_Blank	09/02/2020	<5.0	<0.50	<0.50
92494126	Field_Blank	09/03/2020	<0.50	<0.50	<0.50
92495069	FIELD_BLANK	09/10/2020	<5.0	<0.50	<0.50
92495193	FIELD_BLANK	09/11/2020	<5.0	<0.50	<0.50
92495930	Field_Blank 09-16-2020	09/16/2020	<5.0	<0.50	<0.50
92491368	FIELD_BLANK_1	08/17/2020	<5.0	<0.50	<0.50
92499673	FB-1	10/08/2020	<5.0	<0.50	<0.50
92500731	FB-1	10/15/2020	<5.0	<0.50	<0.50
92501817	FB-1	10/22/2020	<5.0	<0.50	<0.50
92502957	FB-1	10/29/2020	<5.0	<0.50	<0.50
92504300	FB-1	11/05/2020	<5.0	<0.50	<0.50
92506038	Field Blank	11/12/2020	<5.0	<0.50	<0.50
92507391	Field Blank	11/19/2020	<5.0	<0.50	<0.50
92508021	FB-1	11/24/2020	<5.0	<0.50	<0.50
92508822	FB-1	12/01/2020	<0.50	<0.50	<0.50
92510245	FB-1	12/08/2020	<5.0	<0.50	<0.50
92512046	FB-1	12/15/2020	<5.0	<0.50	<0.50
92513342	FB-1	12/22/2020	<5.0	<0.50	<0.50
92513991	FB-1	12/29/2020	<5.0	<0.50	<0.50
92514760	FB-1	01/05/2021	<5.0	<0.50	<0.50
92516192	FB-1	01/12/2021	<5.0	<0.50	<0.50

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**Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
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Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92517218	FB-1	01/19/2021	<5.0	<0.50	<0.50
92518564	FB-1	01/26/2021	<5.0	<0.50	<0.50
92519734	FB-1	02/02/2021	<5.0	<0.50	<0.50
92521104	FB-1	02/09/2021	<5.0	<0.50	<0.50
92522438	FB-1	02/16/2021	<5.0	<0.50	<0.50
92523574	FB-1	02/23/2021	<5.0	<0.50	<0.50
92525144	FB-1	03/02/2021	<5.0	<0.50	<0.50
92526621	FB-1	03/09/2021	<5.0	<0.50	<0.50
92527887	FB-1	03/16/2021	<5.0	<0.50	<0.50

**Table 6  
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Colonial Pipeline Company  
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Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92492469	Trip Blank	08/25/2020	NA	<0.50	<0.50
92492905	Trip Blank	08/27/2020	NA	<0.50	<0.50
92491368	TRIP_BLANK	08/17/2020	NA	<0.50	<0.50
92491387	TRIP_BLANK	08/18/2020	NA	<0.50	<0.50
92491555	TRIP_BLANK	08/18/2020	NA	<0.50	<0.50
92492033	Trip_Blank	08/21/2020	NA	NA	<0.50
92493111	Trip_Blank	08/30/2020	NA	<0.50	<0.50
92493905	Trip_Blank	09/02/2020	NA	<0.50	<0.50
92494126	Trip_Blank	09/03/2020	NA	<0.50	<0.50
92495069	TRIP_BLANK	09/10/2020	NA	<0.50	<0.50
92495193	TRIP_BLANK	09/11/2020	NA	<0.50	<0.50
92495930	Trip_Blank	09/16/2020	NA	<0.50	<0.50
92497418	Trip_Blank	09/24/2020	NA	<0.50	<0.50
92499673	TRIP BLANK	10/08/2020	NA	<0.50	<0.50
92500731	TRIP BLANK	10/15/2020	NA	<0.50	<0.50
92501817	TRIP BLANK	10/22/2020	NA	<0.50	<0.50
92502957	TRIP BLANK	10/29/2020	NA	<0.50	<0.50
92504300	TRIP BLANK	11/05/2020	NA	<0.50	<0.50
92506038	Trip Blank	11/12/2020	NA	<0.50	<0.50
92507391	Trip Blank	11/19/2020	NA	<0.50	<0.50
92508021	Trip Blank	11/24/2020	<5.0	<0.50	<0.50
92508822	Trip Blank	12/01/2020	NA	<0.50	<0.50
92510245	Trip Blank	12/08/2020	NA	<0.50	<0.50
92512046	Trip Blank	12/15/2020	NA	<0.50	<0.50
92513342	Trip Blank	12/22/2020	NA	<0.50	<0.50
92513991	Trip Blank	12/29/2020	NA	<0.50	<0.50
92514760	TRIP BLANK	01/05/2021	NA	<0.50	<0.50
92516192	Trip Blank	01/12/2021	NA	<0.50	<0.50
92517218	TRIP BLANK	01/19/2021	NA	<0.50	<0.50
92518564	Trip Blank	01/26/2021	NA	<0.50	<0.50
92519734	Trip Blank	02/02/2021	NA	<0.50	<0.50
92521104	Trip Blank	02/09/2021	NA	<0.50	<0.50
92522438	Trip Blank	02/16/2021	NA	<0.50	<0.50
92523574	Trip Blank	02/23/2021	NA	<0.50	<0.50

**Table 6  
Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
<b>NCAC 2L</b>			<b>15</b>	<b>0.6</b>	<b>70</b>
92525144	Trip Blank	03/02/2021	NA	<0.50	<0.50
92526621	Trip Blank	03/09/2021	NA	<0.50	<0.50
92527887	TRIP BLANK	03/16/2021	NA	<0.50	<0.50

**Notes:**

NA - Not Analyzed

ID - Identification

All units reported in micrograms per liter (µg/L)

Only detected constituents are shown

MADEP - Massachusetts Department of Environmental Protection; as required by North Carolina Department of Environmental Quality

Lead - Analyzed by Method 6010D

VOCs - Volatile Organic Compounds, analyzed by Method SM 6200B

Samples beginning with "FD", "Field\_Duplicate" and "DUP" are field duplicates and co-samples of the preceeding row

Shading indicates a detection greater than the NCAC 2L Groundwater Standard

Bold text indicates a detection greater than the laboratory reporting limit

**APPENDIX A**  
**LABORATORY ANALYTICAL REPORTS**

March 09, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92525139

Dear Andrew Street:

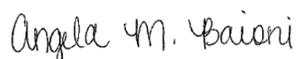
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525139

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525139

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525139001	13712_HC_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525139

Sample: 13712_HC_RD_20210302	Lab ID: 92525139001	Collected: 03/02/21 15:40	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 05:31	03/05/21 05:31		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 05:31	03/05/21 05:31		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 05:31	03/05/21 05:31	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 05:31	03/05/21 05:31	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	83.9	%	70.0-130	1	03/05/21 05:31	03/05/21 05:31	615-59-8FID	
2,5-Dibromotoluene (PID)	85.9	%	70.0-130	1	03/05/21 05:31	03/05/21 05:31	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>38.2</b>	ug/L	5.0	1	03/03/21 01:45	03/04/21 15:00	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/04/21 14:24	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/04/21 14:24	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/04/21 14:24	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/04/21 14:24	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/04/21 14:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/04/21 14:24	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/04/21 14:24	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/04/21 14:24	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/04/21 14:24	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/04/21 14:24	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/04/21 14:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/04/21 14:24	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/04/21 14:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/04/21 14:24	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/04/21 14:24	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/04/21 14:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/04/21 14:24	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/04/21 14:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/04/21 14:24	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/04/21 14:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/04/21 14:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/04/21 14:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/04/21 14:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/04/21 14:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/04/21 14:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/04/21 14:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/04/21 14:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/04/21 14:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/04/21 14:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/04/21 14:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/04/21 14:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/04/21 14:24	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525139

Sample: 13712_HC_RD_20210302	Lab ID: 92525139001	Collected: 03/02/21 15:40	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/04/21 14:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/04/21 14:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/04/21 14:24	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/04/21 14:24	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/04/21 14:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/04/21 14:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/04/21 14:24	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/04/21 14:24	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/04/21 14:24	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/04/21 14:24	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/04/21 14:24	103-65-1	
Styrene	ND	ug/L	0.50	1		03/04/21 14:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/04/21 14:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/04/21 14:24	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/04/21 14:24	127-18-4	
Toluene	ND	ug/L	0.50	1		03/04/21 14:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/04/21 14:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/04/21 14:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/04/21 14:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/04/21 14:24	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/04/21 14:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/04/21 14:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/04/21 14:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/04/21 14:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/04/21 14:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/04/21 14:24	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/04/21 14:24	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/04/21 14:24	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/04/21 14:24	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/04/21 14:24	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		03/04/21 14:24	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525139

QC Batch: 1629754

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525139001

METHOD BLANK: R3628624-2

Matrix: Water

Associated Lab Samples: 92525139001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

LABORATORY CONTROL SAMPLE & LCSD: R3628624-1 R3628624-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25	
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25	
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130			
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525139

QC Batch: 603744

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525139001

METHOD BLANK: 3180706

Matrix: Water

Associated Lab Samples: 92525139001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	470	468	94	94	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525139

QC Batch: 604212	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525139001

METHOD BLANK: 3183051 Matrix: Water

Associated Lab Samples: 92525139001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/04/21 11:24	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/04/21 11:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/04/21 11:24	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/04/21 11:24	
1,1-Dichloroethane	ug/L	ND	0.50	03/04/21 11:24	
1,1-Dichloroethene	ug/L	ND	0.50	03/04/21 11:24	
1,1-Dichloropropene	ug/L	ND	0.50	03/04/21 11:24	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/04/21 11:24	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/04/21 11:24	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/04/21 11:24	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/04/21 11:24	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/04/21 11:24	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/04/21 11:24	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/04/21 11:24	
1,2-Dichloroethane	ug/L	ND	0.50	03/04/21 11:24	
1,2-Dichloropropane	ug/L	ND	0.50	03/04/21 11:24	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/04/21 11:24	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/04/21 11:24	
1,3-Dichloropropane	ug/L	ND	0.50	03/04/21 11:24	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/04/21 11:24	
2,2-Dichloropropane	ug/L	ND	0.50	03/04/21 11:24	
2-Chlorotoluene	ug/L	ND	0.50	03/04/21 11:24	
4-Chlorotoluene	ug/L	ND	0.50	03/04/21 11:24	
Benzene	ug/L	ND	0.50	03/04/21 11:24	
Bromobenzene	ug/L	ND	0.50	03/04/21 11:24	
Bromochloromethane	ug/L	ND	0.50	03/04/21 11:24	
Bromodichloromethane	ug/L	ND	0.50	03/04/21 11:24	
Bromoform	ug/L	ND	0.50	03/04/21 11:24	
Bromomethane	ug/L	ND	5.0	03/04/21 11:24	
Carbon tetrachloride	ug/L	ND	0.50	03/04/21 11:24	
Chlorobenzene	ug/L	ND	0.50	03/04/21 11:24	
Chloroethane	ug/L	ND	1.0	03/04/21 11:24	
Chloroform	ug/L	ND	0.50	03/04/21 11:24	
Chloromethane	ug/L	ND	1.0	03/04/21 11:24	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/04/21 11:24	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/04/21 11:24	
Dibromochloromethane	ug/L	ND	0.50	03/04/21 11:24	
Dibromomethane	ug/L	ND	0.50	03/04/21 11:24	
Dichlorodifluoromethane	ug/L	ND	0.50	03/04/21 11:24	
Diisopropyl ether	ug/L	ND	0.50	03/04/21 11:24	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525139

METHOD BLANK: 3183051 Matrix: Water  
Associated Lab Samples: 92525139001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/04/21 11:24	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/04/21 11:24	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/04/21 11:24	
m&p-Xylene	ug/L	ND	1.0	03/04/21 11:24	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/04/21 11:24	
Methylene Chloride	ug/L	ND	2.0	03/04/21 11:24	
n-Butylbenzene	ug/L	ND	0.50	03/04/21 11:24	
n-Propylbenzene	ug/L	ND	0.50	03/04/21 11:24	
Naphthalene	ug/L	ND	2.0	03/04/21 11:24	
o-Xylene	ug/L	ND	0.50	03/04/21 11:24	
sec-Butylbenzene	ug/L	ND	0.50	03/04/21 11:24	
Styrene	ug/L	ND	0.50	03/04/21 11:24	
tert-Butylbenzene	ug/L	ND	0.50	03/04/21 11:24	
Tetrachloroethene	ug/L	ND	0.50	03/04/21 11:24	
Toluene	ug/L	ND	0.50	03/04/21 11:24	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/04/21 11:24	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/04/21 11:24	
Trichloroethene	ug/L	ND	0.50	03/04/21 11:24	
Trichlorofluoromethane	ug/L	ND	1.0	03/04/21 11:24	
Vinyl chloride	ug/L	ND	1.0	03/04/21 11:24	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/04/21 11:24	
4-Bromofluorobenzene (S)	%	97	70-130	03/04/21 11:24	
Toluene-d8 (S)	%	100	70-130	03/04/21 11:24	

LABORATORY CONTROL SAMPLE: 3183052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.7	105	60-140	
1,1,1-Trichloroethane	ug/L	50	49.9	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	60-140	
1,1,2-Trichloroethane	ug/L	50	49.4	99	60-140	
1,1-Dichloroethane	ug/L	50	47.8	96	60-140	
1,1-Dichloroethene	ug/L	50	49.3	99	60-140	
1,1-Dichloropropene	ug/L	50	49.7	99	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.0	94	60-140	
1,2,3-Trichloropropane	ug/L	50	49.3	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.1	98	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.6	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	54.2	108	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.3	105	60-140	
1,2-Dichlorobenzene	ug/L	50	48.9	98	60-140	
1,2-Dichloroethane	ug/L	50	48.4	97	60-140	
1,2-Dichloropropane	ug/L	50	51.6	103	60-140	
1,3,5-Trimethylbenzene	ug/L	50	46.0	92	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525139

LABORATORY CONTROL SAMPLE: 3183052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.0	98	60-140	
1,3-Dichloropropane	ug/L	50	51.4	103	60-140	
1,4-Dichlorobenzene	ug/L	50	46.8	94	60-140	
2,2-Dichloropropane	ug/L	50	50.7	101	60-140	
2-Chlorotoluene	ug/L	50	48.2	96	60-140	
4-Chlorotoluene	ug/L	50	47.4	95	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	49.2	98	60-140	
Bromochloromethane	ug/L	50	50.4	101	60-140	
Bromodichloromethane	ug/L	50	50.4	101	60-140	
Bromoform	ug/L	50	47.1	94	60-140	
Bromomethane	ug/L	50	58.1	116	60-140	
Carbon tetrachloride	ug/L	50	53.0	106	60-140	
Chlorobenzene	ug/L	50	50.0	100	60-140	
Chloroethane	ug/L	50	45.8	92	60-140	
Chloroform	ug/L	50	48.0	96	60-140	
Chloromethane	ug/L	50	41.8	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.4	107	60-140	
Dibromochloromethane	ug/L	50	54.6	109	60-140	
Dibromomethane	ug/L	50	51.9	104	60-140	
Dichlorodifluoromethane	ug/L	50	43.1	86	60-140	
Diisopropyl ether	ug/L	50	45.7	91	60-140	
Ethylbenzene	ug/L	50	48.5	97	60-140	
Hexachloro-1,3-butadiene	ug/L	50	51.7	103	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.9	98	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	48.3	97	60-140	
Methylene Chloride	ug/L	50	44.6	89	60-140	
n-Butylbenzene	ug/L	50	46.4	93	60-140	
n-Propylbenzene	ug/L	50	46.5	93	60-140	
Naphthalene	ug/L	50	49.5	99	60-140	
o-Xylene	ug/L	50	49.2	98	60-140	
sec-Butylbenzene	ug/L	50	46.3	93	60-140	
Styrene	ug/L	50	49.7	99	60-140	
tert-Butylbenzene	ug/L	50	41.2	82	60-140	
Tetrachloroethene	ug/L	50	50.7	101	60-140	
Toluene	ug/L	50	48.7	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.7	109	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	45.1	90	60-140	
Vinyl chloride	ug/L	50	41.6	83	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525139

Parameter	92524028006		MS	MSD	3183053		3183054		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4840	4560	121	114	60-140	6			
1,1,1-Trichloroethane	ug/L	ND	4000	4000	4770	4530	119	113	60-140	5			
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	4250	4160	106	104	60-140	2			
1,1,2-Trichloroethane	ug/L	ND	4000	4000	4610	4080	115	102	60-140	12			
1,1-Dichloroethane	ug/L	ND	4000	4000	4490	4270	112	107	60-140	5			
1,1-Dichloroethene	ug/L	ND	4000	4000	4870	4590	122	115	60-140	6			
1,1-Dichloropropene	ug/L	ND	4000	4000	4570	4220	114	105	60-140	8			
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	3720	3890	93	97	60-140	4			
1,2,3-Trichloropropane	ug/L	ND	4000	4000	4260	4010	106	100	60-140	6			
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	3950	4060	99	101	60-140	3			
1,2,4-Trimethylbenzene	ug/L	1220	4000	4000	5310	5210	102	100	60-140	2			
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	4310	3960	108	99	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	4000	4000	4720	4400	118	110	60-140	7			
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4290	4150	107	104	60-140	3			
1,2-Dichloroethane	ug/L	ND	4000	4000	4320	4090	108	102	60-140	6			
1,2-Dichloropropane	ug/L	ND	4000	4000	4710	4460	118	111	60-140	6			
1,3,5-Trimethylbenzene	ug/L	ND	4000	4000	4460	4290	111	107	60-140	4			
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4290	4140	107	103	60-140	4			
1,3-Dichloropropane	ug/L	ND	4000	4000	4550	4180	114	104	60-140	9			
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4140	4000	103	100	60-140	3			
2,2-Dichloropropane	ug/L	ND	4000	4000	4230	4180	106	104	60-140	1			
2-Chlorotoluene	ug/L	ND	4000	4000	4360	4160	109	104	60-140	5			
4-Chlorotoluene	ug/L	ND	4000	4000	4260	4040	107	101	60-140	5			
Benzene	ug/L	16300	4000	4000	20700	20700	111	109	60-140	0			
Bromobenzene	ug/L	ND	4000	4000	4550	4310	114	108	60-140	5			
Bromochloromethane	ug/L	ND	4000	4000	4460	4320	112	108	60-140	3			
Bromodichloromethane	ug/L	ND	4000	4000	4330	4260	108	106	60-140	2			
Bromoform	ug/L	ND	4000	4000	4020	3910	100	98	60-140	3			
Bromomethane	ug/L	ND	4000	4000	5080	5270	127	132	60-140	4			
Carbon tetrachloride	ug/L	ND	4000	4000	5090	4860	127	121	60-140	5			
Chlorobenzene	ug/L	ND	4000	4000	4790	4430	120	111	60-140	8			
Chloroethane	ug/L	ND	4000	4000	4540	4310	114	108	60-140	5			
Chloroform	ug/L	ND	4000	4000	4510	4240	113	106	60-140	6			
Chloromethane	ug/L	ND	4000	4000	3730	3620	93	91	60-140	3			
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	4190	4180	105	104	60-140	0			
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	4720	4530	118	113	60-140	4			
Dibromochloromethane	ug/L	ND	4000	4000	4770	4560	119	114	60-140	5			
Dibromomethane	ug/L	ND	4000	4000	4640	4620	116	115	60-140	1			
Dichlorodifluoromethane	ug/L	ND	4000	4000	4080	3940	102	99	60-140	3			
Diisopropyl ether	ug/L	ND	4000	4000	4000	3940	99	98	60-140	1			
Ethylbenzene	ug/L	1640	4000	4000	6240	5960	115	108	60-140	5			
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	4380	4350	110	109	60-140	1			
Isopropylbenzene (Cumene)	ug/L	ND	4000	4000	4810	4460	120	112	60-140	7			
m&p-Xylene	ug/L	5570	8000	8000	15100	14600	119	112	60-140	4			
Methyl-tert-butyl ether	ug/L	4220	4000	4000	8420	8360	105	103	60-140	1			
Methylene Chloride	ug/L	ND	4000	4000	4290	4040	107	101	60-140	6			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525139

Parameter	92524028006		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	4000	4000	3950	3920	99	98	60-140	1				
n-Propylbenzene	ug/L	ND	4000	4000	4330	4190	108	105	60-140	3				
Naphthalene	ug/L	652	4000	4000	4210	4320	89	92	60-140	3				
o-Xylene	ug/L	2780	4000	4000	7310	7080	113	108	60-140	3				
sec-Butylbenzene	ug/L	ND	4000	4000	4230	4120	106	103	60-140	3				
Styrene	ug/L	ND	4000	4000	4680	4380	117	110	60-140	7				
tert-Butylbenzene	ug/L	ND	4000	4000	3820	3670	95	92	60-140	4				
Tetrachloroethene	ug/L	ND	4000	4000	4680	4420	117	110	60-140	6				
Toluene	ug/L	22000	4000	4000	26600	26000	115	98	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	4590	4380	115	110	60-140	5				
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	4550	4440	114	111	60-140	2				
Trichloroethene	ug/L	ND	4000	4000	4820	4720	120	118	60-140	2				
Trichlorofluoromethane	ug/L	ND	4000	4000	4790	4620	120	115	60-140	4				
Vinyl chloride	ug/L	ND	4000	4000	3990	3940	100	99	60-140	1				
1,2-Dichloroethane-d4 (S)	%						98	97	70-130					
4-Bromofluorobenzene (S)	%						103	100	70-130					
Toluene-d8 (S)	%						98	96	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525139

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92525139

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525139001	13712_HC_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525139001	13712_HC_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525139001	13712_HC_RD_20210302	SM 6200B	604212		

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY Analytical Request Document**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: *Apex Companies*  
 Address: *Andrews Street*

Report To: *Andrews Street*  
 Copy To: *13712 Huntersville, Concord, NC*

Customer Project Name/Number: *2020-61-2448 Incident*  
 Site/Facility ID #: \_\_\_\_\_

Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

Collected By (print): *Naomi*  
 Collected By (signature): *Naomi*

Sample Disposal:  Dispose as appropriate  Return  Archive: \_\_\_\_\_  Hold: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: *13712-HC-PD-20210524-DW*

Matrix #: *DW*

Comp / Grab: *G*

Collected (or Composite Start) Date/Time: *3-2-21 15:40*

Res CI: *8*

Composite End Date/Time: \_\_\_\_\_

Type of Ice Used: *Wet* Blue Dry None

Packing Material Used: *BB*

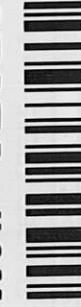
Radchem sample(s) screened (<500 cpm): *Y N NA*

Received by/Company: *3-2-21 17:05 JPL PAUL HUI*

Relinquished by/Company: *3-2-21 17:05 Naomi*

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or

**WO#: 92525139**



92525139

\*\* Preservative Types: (1) nitric acid, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Container Prese

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact  Y  N  NA  
 Collector Signatures Present  Y  N  NA  
 Bottles Intact  Y  N  NA  
 Correct Bottles  Y  N  NA  
 Sufficient Volume  Y  N  NA  
 Samples Received on Ice  Y  N  NA  
 VOA - Headspace Acceptable  Y  N  NA  
 USDA Regulated Soils  Y  N  NA  
 Samples in Holding Time  Y  N  NA  
 Residual Chlorine Present  Y  N  NA  
 Cl Strips: *4*  Y  N  NA  
 Sample pH Acceptable  Y  N  NA  
 pH Strips: *2/30/944*  Y  N  NA  
 Sulfide Present  Y  N  NA  
 Lead Acetate Strips: \_\_\_\_\_  Y  N  NA

LAB USE ONLY:  
 Lab Sample # / Comments: *92525139 001*

Lab Sample Temperature Info:

Temp Blank Received: *Y N NA*  
 Therm ID#: *927084*  
 Cooler 1 Temp Upon Receipt: *1.1* oC  
 Cooler 1 Therm Corr. Factor: *0.00* oC  
 Cooler 1 Corrected Temp: *1.1* oC  
 Comments:

Trip Blank Received: *Y N NA*

HCL MeOH TSP Other

Non Conformance(s): *YES / NO*

Page: \_\_\_\_\_ of: \_\_\_\_\_



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

Project #

**WO# : 92525139**

PM: AMB

Due Date: 03/09/21

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

CLIENT: 92-APEX MOOR

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

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 Na2SO3 (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																													
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 DEHM Certification Office (if applicable).  
Out of hold, incorrect preservative, out of temp, incorrect containers.

February 24, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92522441

Dear Andrew Street:

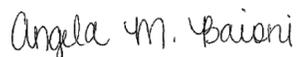
Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522441

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92522441

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92522441001	13800_HC_RD_20210216	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522441

**Sample:** 13800\_HC\_RD\_20210216    **Lab ID:** 92522441001    Collected: 02/16/21 10:45    Received: 02/16/21 13:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/24/21 01:19	02/24/21 01:19		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/24/21 01:19	02/24/21 01:19		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/24/21 01:19	02/24/21 01:19	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/24/21 01:19	02/24/21 01:19	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	90.8	%	70.0-130	1	02/24/21 01:19	02/24/21 01:19	615-59-8FID	
2,5-Dibromotoluene (PID)	90.3	%	70.0-130	1	02/24/21 01:19	02/24/21 01:19	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/19/21 02:33	02/19/21 18:52	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/18/21 19:14	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/18/21 19:14	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/18/21 19:14	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/18/21 19:14	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/18/21 19:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/18/21 19:14	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/18/21 19:14	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/18/21 19:14	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/18/21 19:14	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/18/21 19:14	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/18/21 19:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/21 19:14	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/18/21 19:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/21 19:14	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 19:14	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 19:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/18/21 19:14	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/18/21 19:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/18/21 19:14	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/18/21 19:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 19:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 19:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 19:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/18/21 19:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/18/21 19:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/18/21 19:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/18/21 19:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 19:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 19:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 19:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/18/21 19:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 19:14	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522441

Sample: 13800_HC_RD_20210216	Lab ID: 92522441001	Collected: 02/16/21 10:45	Received: 02/16/21 13:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/18/21 19:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 19:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 19:14	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/18/21 19:14	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/18/21 19:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/18/21 19:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/18/21 19:14	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/18/21 19:14	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/18/21 19:14	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/18/21 19:14	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/18/21 19:14	103-65-1	
Styrene	ND	ug/L	0.50	1		02/18/21 19:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 19:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 19:14	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/18/21 19:14	127-18-4	
Toluene	ND	ug/L	0.50	1		02/18/21 19:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 19:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 19:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/18/21 19:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/18/21 19:14	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/18/21 19:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/21 19:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/18/21 19:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 19:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 19:14	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/21 19:14	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/18/21 19:14	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/18/21 19:14	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/18/21 19:14	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		02/18/21 19:14	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		02/18/21 19:14	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522441

QC Batch: 1624518

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92522441001

METHOD BLANK: R3624660-3

Matrix: Water

Associated Lab Samples: 92522441001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/23/21 20:45	
Aliphatic (C09-C12)	ug/L	ND	100	02/23/21 20:45	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/23/21 20:45	
Total VPH	ug/L	ND	100	02/23/21 20:45	
2,5-Dibromotoluene (FID)	%	83.6	70.0-130	02/23/21 20:45	
2,5-Dibromotoluene (PID)	%	83.6	70.0-130	02/23/21 20:45	

LABORATORY CONTROL SAMPLE & LCSD: R3624660-1 R3624660-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1010	996	84.2	83.0	70.0-130	1.40	25	
Aliphatic (C09-C12)	ug/L	1400	1380	1390	98.6	99.3	70.0-130	0.722	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	197	195	98.5	97.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2590	2580	92.5	92.1	70.0-130	0.387	25	
2,5-Dibromotoluene (FID)	%				81.5	93.5	70.0-130			
2,5-Dibromotoluene (PID)	%				81.3	93.3	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522441

QC Batch: 601150

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92522441001

METHOD BLANK: 3168304

Matrix: Water

Associated Lab Samples: 92522441001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/19/21 18:32	

LABORATORY CONTROL SAMPLE: 3168305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3168306 3168307

Parameter	Units	92522780001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Lead	ug/L	ND	500	500	478	484	96	97	75-125	1	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522441

QC Batch: 600709      Analysis Method: SM 6200B  
QC Batch Method: SM 6200B      Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92522441001

METHOD BLANK: 3165931      Matrix: Water  
Associated Lab Samples: 92522441001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/18/21 11:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/18/21 11:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/18/21 11:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
1,3-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
2,2-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
2-Chlorotoluene	ug/L	ND	0.50	02/18/21 11:49	
4-Chlorotoluene	ug/L	ND	0.50	02/18/21 11:49	
Benzene	ug/L	ND	0.50	02/18/21 11:49	
Bromobenzene	ug/L	ND	0.50	02/18/21 11:49	
Bromochloromethane	ug/L	ND	0.50	02/18/21 11:49	
Bromodichloromethane	ug/L	ND	0.50	02/18/21 11:49	
Bromoform	ug/L	ND	0.50	02/18/21 11:49	
Bromomethane	ug/L	ND	5.0	02/18/21 11:49	
Carbon tetrachloride	ug/L	ND	0.50	02/18/21 11:49	
Chlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
Chloroethane	ug/L	ND	1.0	02/18/21 11:49	
Chloroform	ug/L	ND	0.50	02/18/21 11:49	
Chloromethane	ug/L	ND	1.0	02/18/21 11:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
Dibromochloromethane	ug/L	ND	0.50	02/18/21 11:49	
Dibromomethane	ug/L	ND	0.50	02/18/21 11:49	
Dichlorodifluoromethane	ug/L	ND	0.50	02/18/21 11:49	
Diisopropyl ether	ug/L	ND	0.50	02/18/21 11:49	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522441

METHOD BLANK: 3165931 Matrix: Water  
Associated Lab Samples: 92522441001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/18/21 11:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/18/21 11:49	
m&p-Xylene	ug/L	ND	1.0	02/18/21 11:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/18/21 11:49	
Methylene Chloride	ug/L	ND	2.0	02/18/21 11:49	
n-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
n-Propylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Naphthalene	ug/L	ND	2.0	02/18/21 11:49	
o-Xylene	ug/L	ND	0.50	02/18/21 11:49	
sec-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Styrene	ug/L	ND	0.50	02/18/21 11:49	
tert-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Tetrachloroethene	ug/L	ND	0.50	02/18/21 11:49	
Toluene	ug/L	ND	0.50	02/18/21 11:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
Trichloroethene	ug/L	ND	0.50	02/18/21 11:49	
Trichlorofluoromethane	ug/L	ND	1.0	02/18/21 11:49	
Vinyl chloride	ug/L	ND	1.0	02/18/21 11:49	
1,2-Dichloroethane-d4 (S)	%	90	70-130	02/18/21 11:49	
4-Bromofluorobenzene (S)	%	100	70-130	02/18/21 11:49	
Toluene-d8 (S)	%	103	70-130	02/18/21 11:49	

LABORATORY CONTROL SAMPLE: 3165932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	60-140	
1,1,1-Trichloroethane	ug/L	50	45.8	92	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	60-140	
1,1,2-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1-Dichloroethane	ug/L	50	47.0	94	60-140	
1,1-Dichloroethene	ug/L	50	49.4	99	60-140	
1,1-Dichloropropene	ug/L	50	50.2	100	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.6	101	60-140	
1,2,3-Trichloropropane	ug/L	50	46.2	92	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.8	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.2	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.9	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	60-140	
1,2-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,2-Dichloroethane	ug/L	50	45.4	91	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	46.8	94	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522441

LABORATORY CONTROL SAMPLE: 3165932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	48.4	97	60-140	
1,4-Dichlorobenzene	ug/L	50	48.5	97	60-140	
2,2-Dichloropropane	ug/L	50	47.2	94	60-140	
2-Chlorotoluene	ug/L	50	49.7	99	60-140	
4-Chlorotoluene	ug/L	50	45.9	92	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	45.9	92	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	45.1	90	60-140	
Bromoform	ug/L	50	48.3	97	60-140	
Bromomethane	ug/L	50	43.0	86	60-140	
Carbon tetrachloride	ug/L	50	44.4	89	60-140	
Chlorobenzene	ug/L	50	48.3	97	60-140	
Chloroethane	ug/L	50	43.9	88	60-140	
Chloroform	ug/L	50	46.1	92	60-140	
Chloromethane	ug/L	50	42.5	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.3	95	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	60-140	
Dibromochloromethane	ug/L	50	52.0	104	60-140	
Dibromomethane	ug/L	50	47.5	95	60-140	
Dichlorodifluoromethane	ug/L	50	44.5	89	60-140	
Diisopropyl ether	ug/L	50	49.1	98	60-140	
Ethylbenzene	ug/L	50	47.0	94	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.0	94	60-140	
m&p-Xylene	ug/L	100	92.8	93	60-140	
Methyl-tert-butyl ether	ug/L	50	49.3	99	60-140	
Methylene Chloride	ug/L	50	45.5	91	60-140	
n-Butylbenzene	ug/L	50	52.0	104	60-140	
n-Propylbenzene	ug/L	50	47.6	95	60-140	
Naphthalene	ug/L	50	52.6	105	60-140	
o-Xylene	ug/L	50	47.7	95	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	49.2	98	60-140	
tert-Butylbenzene	ug/L	50	39.2	78	60-140	
Tetrachloroethene	ug/L	50	45.8	92	60-140	
Toluene	ug/L	50	46.5	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	41.5	83	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522441

Parameter	92522266001		MS	MSD	3165933		3165934		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.6	22.2	98	111	60-140	13			
1,1,1-Trichloroethane	ug/L	ND	20	20	20.3	22.3	101	111	60-140	9			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.8	21.1	99	106	60-140	7			
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	21.4	99	107	60-140	8			
1,1-Dichloroethane	ug/L	ND	20	20	19.9	21.2	99	106	60-140	6			
1,1-Dichloroethene	ug/L	ND	20	20	22.4	23.6	112	118	60-140	5			
1,1-Dichloropropene	ug/L	ND	20	20	19.8	22.1	99	111	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.4	20.4	97	102	60-140	5			
1,2,3-Trichloropropane	ug/L	ND	20	20	18.4	20.3	92	101	60-140	9			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.0	21.3	100	106	60-140	6			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.6	21.7	103	108	60-140	5			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.1	22.1	100	111	60-140	10			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.2	22.0	96	110	60-140	14			
1,2-Dichlorobenzene	ug/L	ND	20	20	21.1	22.2	106	111	60-140	5			
1,2-Dichloroethane	ug/L	ND	20	20	18.3	19.5	91	98	60-140	7			
1,2-Dichloropropane	ug/L	ND	20	20	18.9	20.7	94	103	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.8	21.3	104	107	60-140	3			
1,3-Dichlorobenzene	ug/L	ND	20	20	20.4	21.0	102	105	60-140	3			
1,3-Dichloropropane	ug/L	ND	20	20	18.4	21.4	92	107	60-140	15			
1,4-Dichlorobenzene	ug/L	ND	20	20	21.9	22.8	109	114	60-140	4			
2,2-Dichloropropane	ug/L	ND	20	20	19.7	21.3	98	106	60-140	8			
2-Chlorotoluene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5			
Benzene	ug/L	ND	20	20	19.6	21.1	98	105	60-140	7			
Bromobenzene	ug/L	ND	20	20	21.6	22.1	108	111	60-140	3			
Bromochloromethane	ug/L	ND	20	20	20.4	23.2	102	116	60-140	13			
Bromodichloromethane	ug/L	ND	20	20	19.3	20.7	96	103	60-140	7			
Bromoform	ug/L	ND	20	20	19.5	22.0	98	110	60-140	12			
Bromomethane	ug/L	ND	20	20	22.3	23.6	112	118	60-140	5			
Carbon tetrachloride	ug/L	ND	20	20	21.5	23.4	108	117	60-140	8			
Chlorobenzene	ug/L	ND	20	20	20.2	21.5	101	108	60-140	6			
Chloroethane	ug/L	ND	20	20	24.2	25.6	121	128	60-140	6			
Chloroform	ug/L	ND	20	20	19.8	21.2	99	106	60-140	7			
Chloromethane	ug/L	ND	20	20	18.8	20.0	93	100	60-140	6			
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.1	20.9	96	104	60-140	9			
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	21.2	97	106	60-140	9			
Dibromochloromethane	ug/L	ND	20	20	19.5	22.3	98	111	60-140	13			
Dibromomethane	ug/L	ND	20	20	21.9	22.5	109	113	60-140	3			
Dichlorodifluoromethane	ug/L	ND	20	20	25.1	26.1	125	131	60-140	4			
Diisopropyl ether	ug/L	ND	20	20	16.9	18.8	84	94	60-140	11			
Ethylbenzene	ug/L	ND	20	20	19.8	20.5	99	103	60-140	4			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.5	20.4	98	102	60-140	4			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	21.1	102	105	60-140	4			
m&p-Xylene	ug/L	ND	40	40	40.8	42.1	102	105	60-140	3			
Methyl-tert-butyl ether	ug/L	ND	20	20	18.7	21.6	94	108	60-140	14			
Methylene Chloride	ug/L	ND	20	20	18.1	19.7	91	98	60-140	8			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522441

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165933 3165934												
Parameter	Units	92522266001		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
n-Butylbenzene	ug/L	ND	20	20	20	20.2	20.4	101	102	60-140	1	
n-Propylbenzene	ug/L	ND	20	20	20	20.8	21.0	104	105	60-140	1	
Naphthalene	ug/L	ND	20	20	20	20.1	21.7	101	108	60-140	7	
o-Xylene	ug/L	ND	20	20	20	20.2	20.8	101	104	60-140	3	
sec-Butylbenzene	ug/L	ND	20	20	20	20.9	21.7	104	109	60-140	4	
Styrene	ug/L	ND	20	20	20	20.4	21.6	102	108	60-140	6	
tert-Butylbenzene	ug/L	ND	20	20	20	16.7	17.4	84	87	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	20	19.5	20.7	97	103	60-140	6	
Toluene	ug/L	ND	20	20	20	20.9	21.0	105	105	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20	20.4	21.7	102	109	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20	19.9	21.2	99	106	60-140	7	
Trichloroethene	ug/L	ND	20	20	20	20.1	21.5	100	108	60-140	7	
Trichlorofluoromethane	ug/L	ND	20	20	20	23.2	23.9	116	120	60-140	3	
Vinyl chloride	ug/L	ND	20	20	20	22.6	23.7	113	119	60-140	5	
1,2-Dichloroethane-d4 (S)	%							99	101	70-130		
4-Bromofluorobenzene (S)	%							101	100	70-130		
Toluene-d8 (S)	%							103	97	70-130		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522441

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92522441

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92522441001	13800_HC_RD_20210216	MADEPV	1624518	MADEP VPH	1624518
92522441001	13800_HC_RD_20210216	EPA 3010A	601150	EPA 6010D	601184
92522441001	13800_HC_RD_20210216	SM 6200B	600709		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Address: Andrew Street

Report To: Andrew Street

Copy To: 13800 Huntersville

Customer Project Name/Number: 2020-U-2448 Incident

Phone: [ ] Site/Facility ID #: [ ]

Collected By (print): Naumi Gatz

Collected By (signature): Naumi Gatz

Turnaround Date Required: ASAP

Rush: [ ] Same Day [ ] Next Day

Matrix \* OW

Customer Sample ID 13800-NC-PD-20210216

Comp / Grab G

Collected (or Composite Start) Date Time 2-16-21 1045

Composite End Date Time

Res CI 8

# of Ctns

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: b. bags

Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature) Naumi Gatz / Apex

Date/Time: 2-16-21 1355

Received by/Company: (Signature) [Signature]

Date/Time: [Date/Time]

LAB USE

WO#: 92522441



92522441

Contain:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y (N) NA
Custody Signatures Present Y (N) NA
Collector Signature Present Y (N) NA
Bottles Intact Y (N) NA
Correct Bottles Y (N) NA
Sufficient Volume Y (N) NA
Samples Received on Ice Y (N) NA
VOA - Headspace Acceptable Y (N) NA
USDA Regulated Soils Y (N) NA
Samples in Holding Time Y (N) NA
Residual Chlorine Present Y (N) NA
Cl Strips: Y (N) NA
Sample pH Acceptable Y (N) NA
pH Strips: 2.88/4.4V Y (N) NA
Sulfide Present Y (N) NA
Lead Acetate Strips: Y (N) NA

LAB USE ONLY: Lab Sample # / Comments: 92522441 OU

Customer Remarks / Special Conditions / Possible Hazards:

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2561325

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: [Date/Time]

Table #: [Table #]

Acctnum: [Acctnum]

Template: [Template]

Prelogin: [Prelogin]

PM: [PM]

PB: [PB]

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA
Therm ID#: 18927064
Cooler 1 Temp Upon Receipt: 5.00C
Cooler 1 Therm Corr. Factor: -1.0C
Cooler 1 Corrected Temp: 4.00C
Comments:

Trip Blank Received: Y (N) NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO
Page: of:

March 02, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523569

Dear Andrew Street:

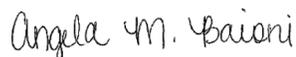
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523569

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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 Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

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

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 ANALYTE COUNT

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523569

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523569001	13800_HC_RD_20210223	MADEP VPH	JHH	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523569

**Sample:** 13800\_HC\_RD\_20210223    **Lab ID:** 92523569001    Collected: 02/23/21 07:55    Received: 02/23/21 13:35    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/28/21 05:59	02/28/21 05:59		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/28/21 05:59	02/28/21 05:59		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/28/21 05:59	02/28/21 05:59	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/28/21 05:59	02/28/21 05:59	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	107	%	70.0-130	1	02/28/21 05:59	02/28/21 05:59	615-59-8FID	
2,5-Dibromotoluene (PID)	107	%	70.0-130	1	02/28/21 05:59	02/28/21 05:59	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/24/21 02:09	02/28/21 22:09	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/24/21 03:24	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/24/21 03:24	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/24/21 03:24	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/24/21 03:24	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/24/21 03:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/24/21 03:24	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/24/21 03:24	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/24/21 03:24	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/24/21 03:24	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/24/21 03:24	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/24/21 03:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/21 03:24	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/24/21 03:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/21 03:24	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 03:24	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 03:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/24/21 03:24	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/24/21 03:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/24/21 03:24	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/24/21 03:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 03:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 03:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 03:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/24/21 03:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/24/21 03:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/24/21 03:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/24/21 03:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 03:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 03:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 03:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/24/21 03:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 03:24	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523569

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 13800_HC_RD_20210223</b>		<b>Lab ID: 92523569001</b>		Collected: 02/23/21 07:55	Received: 02/23/21 13:35	Matrix: Water		
<b>6200B MSV</b> Analytical Method: SM 6200B Pace Analytical Services - Charlotte								
1,1-Dichloropropene	ND	ug/L	0.50	1		02/24/21 03:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 03:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 03:24	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/24/21 03:24	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/24/21 03:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/24/21 03:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/24/21 03:24	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/24/21 03:24	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/24/21 03:24	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/24/21 03:24	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/24/21 03:24	103-65-1	
Styrene	ND	ug/L	0.50	1		02/24/21 03:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 03:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 03:24	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/24/21 03:24	127-18-4	
Toluene	ND	ug/L	0.50	1		02/24/21 03:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 03:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 03:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/24/21 03:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/24/21 03:24	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/24/21 03:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/21 03:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/24/21 03:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 03:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 03:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/24/21 03:24	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/24/21 03:24	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/24/21 03:24	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		02/24/21 03:24	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		02/24/21 03:24	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/24/21 03:24	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523569

QC Batch: 1626945

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92523569001

METHOD BLANK: R3626445-3

Matrix: Water

Associated Lab Samples: 92523569001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/27/21 12:57	
Aliphatic (C09-C12)	ug/L	ND	100	02/27/21 12:57	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/27/21 12:57	
Total VPH	ug/L	ND	100	02/27/21 12:57	
2,5-Dibromotoluene (FID)	%	95.2	70.0-130	02/27/21 12:57	
2,5-Dibromotoluene (PID)	%	96.8	70.0-130	02/27/21 12:57	

LABORATORY CONTROL SAMPLE & LCSD: R3626445-1 R3626445-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1290	1290	107	107	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1670	1650	119	118	70.0-130	1.20	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	246	248	123	124	70.0-130	0.810	25	
Total VPH	ug/L	2800	3210	3190	115	114	70.0-130	0.625	25	
2,5-Dibromotoluene (FID)	%				102	105	70.0-130			
2,5-Dibromotoluene (PID)	%				104	107	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523569

QC Batch: 602104

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523569001

METHOD BLANK: 3172642

Matrix: Water

Associated Lab Samples: 92523569001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/28/21 21:13	

LABORATORY CONTROL SAMPLE: 3172643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172644 3172645

Parameter	Units	92523735020		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1		

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523569

QC Batch: 602003

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523569001

METHOD BLANK: 3172101

Matrix: Water

Associated Lab Samples: 92523569001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
2,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
2-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
4-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
Benzene	ug/L	ND	0.50	02/24/21 00:42	
Bromobenzene	ug/L	ND	0.50	02/24/21 00:42	
Bromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromodichloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromoform	ug/L	ND	0.50	02/24/21 00:42	
Bromomethane	ug/L	ND	5.0	02/24/21 00:42	
Carbon tetrachloride	ug/L	ND	0.50	02/24/21 00:42	
Chlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
Chloroethane	ug/L	ND	1.0	02/24/21 00:42	
Chloroform	ug/L	ND	0.50	02/24/21 00:42	
Chloromethane	ug/L	ND	1.0	02/24/21 00:42	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Dibromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Dibromomethane	ug/L	ND	0.50	02/24/21 00:42	
Dichlorodifluoromethane	ug/L	ND	0.50	02/24/21 00:42	
Diisopropyl ether	ug/L	ND	0.50	02/24/21 00:42	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523569

METHOD BLANK: 3172101 Matrix: Water  
Associated Lab Samples: 92523569001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/24/21 00:42	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/24/21 00:42	
m&p-Xylene	ug/L	ND	1.0	02/24/21 00:42	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/24/21 00:42	
Methylene Chloride	ug/L	ND	2.0	02/24/21 00:42	
n-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
n-Propylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Naphthalene	ug/L	ND	2.0	02/24/21 00:42	
o-Xylene	ug/L	ND	0.50	02/24/21 00:42	
sec-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Styrene	ug/L	ND	0.50	02/24/21 00:42	
tert-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Tetrachloroethene	ug/L	ND	0.50	02/24/21 00:42	
Toluene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Trichloroethene	ug/L	ND	0.50	02/24/21 00:42	
Trichlorofluoromethane	ug/L	ND	1.0	02/24/21 00:42	
Vinyl chloride	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dichloroethane-d4 (S)	%	99	70-130	02/24/21 00:42	
4-Bromofluorobenzene (S)	%	97	70-130	02/24/21 00:42	
Toluene-d8 (S)	%	101	70-130	02/24/21 00:42	

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	60-140	
1,1,2-Trichloroethane	ug/L	50	54.9	110	60-140	
1,1-Dichloroethane	ug/L	50	52.4	105	60-140	
1,1-Dichloroethene	ug/L	50	54.2	108	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.8	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.8	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	60-140	
1,2-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	56.7	113	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	60-140	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523569

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,3-Dichloropropane	ug/L	50	53.3	107	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	52.2	104	60-140	
2-Chlorotoluene	ug/L	50	51.1	102	60-140	
4-Chlorotoluene	ug/L	50	50.2	100	60-140	
Benzene	ug/L	50	53.9	108	60-140	
Bromobenzene	ug/L	50	51.1	102	60-140	
Bromochloromethane	ug/L	50	52.6	105	60-140	
Bromodichloromethane	ug/L	50	54.4	109	60-140	
Bromoform	ug/L	50	50.3	101	60-140	
Bromomethane	ug/L	50	52.1	104	60-140	
Carbon tetrachloride	ug/L	50	57.8	116	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	47.8	96	60-140	
Chloroform	ug/L	50	50.6	101	60-140	
Chloromethane	ug/L	50	43.1	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.3	115	60-140	
Dibromochloromethane	ug/L	50	56.5	113	60-140	
Dibromomethane	ug/L	50	55.8	112	60-140	
Dichlorodifluoromethane	ug/L	50	51.2	102	60-140	
Diisopropyl ether	ug/L	50	49.8	100	60-140	
Ethylbenzene	ug/L	50	52.0	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.5	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	48.6	97	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	49.7	99	60-140	
Naphthalene	ug/L	50	53.0	106	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	50.0	100	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	51.9	104	60-140	
Toluene	ug/L	50	53.3	107	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.3	117	60-140	
Trichloroethene	ug/L	50	55.5	111	60-140	
Trichlorofluoromethane	ug/L	50	47.6	95	60-140	
Vinyl chloride	ug/L	50	47.2	94	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			103	70-130	

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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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523569

Parameter	92523527010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.4	104	107	60-140	2				
1,1,1-Trichloroethane	ug/L	ND	20	20	20.6	20.9	103	104	60-140	1				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.3	19.5	97	98	60-140	1				
1,1,2-Trichloroethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0				
1,1-Dichloroethane	ug/L	ND	20	20	20.4	20.0	102	100	60-140	2				
1,1-Dichloroethene	ug/L	ND	20	20	21.9	21.1	110	106	60-140	4				
1,1-Dichloropropene	ug/L	ND	20	20	21.1	20.6	105	103	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.8	19.1	109	96	60-140	13				
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	19.4	96	97	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.1	19.7	106	98	60-140	7				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.7	19.0	99	95	60-140	4				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.9	21.3	115	106	60-140	7				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.2	20.6	101	103	60-140	2				
1,2-Dichlorobenzene	ug/L	ND	20	20	20.2	19.0	101	95	60-140	6				
1,2-Dichloroethane	ug/L	ND	20	20	19.4	19.5	97	98	60-140	1				
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.5	108	108	60-140	0				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.0	19.3	100	96	60-140	4				
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.5	101	97	60-140	4				
1,3-Dichloropropane	ug/L	ND	20	20	19.9	20.0	100	100	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	18.6	95	93	60-140	2				
2,2-Dichloropropane	ug/L	ND	20	20	22.3	21.3	111	107	60-140	4				
2-Chlorotoluene	ug/L	ND	20	20	20.0	19.7	100	98	60-140	2				
4-Chlorotoluene	ug/L	ND	20	20	19.5	19.3	98	97	60-140	1				
Benzene	ug/L	ND	20	20	20.6	20.1	103	101	60-140	2				
Bromobenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	7				
Bromochloromethane	ug/L	ND	20	20	20.3	19.8	102	99	60-140	2				
Bromodichloromethane	ug/L	ND	20	20	19.7	20.0	98	100	60-140	2				
Bromoform	ug/L	ND	20	20	17.8	18.0	89	90	60-140	2				
Bromomethane	ug/L	ND	20	20	20.8	21.2	104	106	60-140	2				
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.0	113	110	60-140	3				
Chlorobenzene	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1				
Chloroethane	ug/L	ND	20	20	18.3	17.7	91	89	60-140	3				
Chloroform	ug/L	ND	20	20	19.9	19.5	100	98	60-140	2				
Chloromethane	ug/L	ND	20	20	15.3	15.3	76	76	60-140	0				
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	19.2	102	96	60-140	6				
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2				
Dibromochloromethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2				
Dibromomethane	ug/L	ND	20	20	20.8	20.7	104	104	60-140	0				
Dichlorodifluoromethane	ug/L	ND	20	20	12.8	12.8	64	64	60-140	0				
Diisopropyl ether	ug/L	ND	20	20	19.5	19.3	98	96	60-140	1				
Ethylbenzene	ug/L	ND	20	20	20.0	19.8	100	99	60-140	1				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.5	22.9	123	115	60-140	7				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	20.0	101	100	60-140	1				
m&p-Xylene	ug/L	ND	40	40	41.0	40.9	102	102	60-140	0				
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	19.8	100	99	60-140	1				
Methylene Chloride	ug/L	ND	20	20	18.9	18.6	94	93	60-140	2				

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: 2020-LI-2448 INCIDENT

Pace Project No.: 92523569

Parameter	92523527010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.0	19.6	105	98	60-140	7				
n-Propylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Naphthalene	ug/L	ND	20	20	21.2	19.1	106	95	60-140	11				
o-Xylene	ug/L	ND	20	20	19.7	19.6	99	98	60-140	1				
sec-Butylbenzene	ug/L	ND	20	20	20.8	19.9	104	99	60-140	5				
Styrene	ug/L	ND	20	20	19.8	20.1	99	101	60-140	2				
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.5	90	87	60-140	3				
Tetrachloroethene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2				
Toluene	ug/L	ND	20	20	20.7	20.5	104	102	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.0	21.2	105	106	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.8	20.8	109	104	60-140	4				
Trichloroethene	ug/L	ND	20	20	21.3	20.9	107	104	60-140	2				
Trichlorofluoromethane	ug/L	ND	20	20	20.0	20.5	100	102	60-140	3				
Vinyl chloride	ug/L	ND	20	20	16.8	16.7	84	84	60-140	0				
1,2-Dichloroethane-d4 (S)	%						99	97	70-130					
4-Bromofluorobenzene (S)	%						98	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523569

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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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

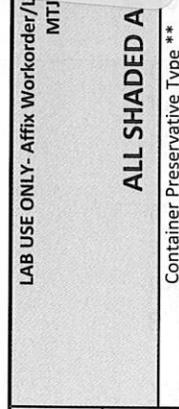
Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523569

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523569001	13800_HC_RD_20210223	MADEPV	1626945	MADEP VPH	1626945
92523569001	13800_HC_RD_20210223	EPA 3010A	602104	EPA 6010D	602118
92523569001	13800_HC_RD_20210223	SM 6200B	602003		

**REPORT OF LABORATORY ANALYSIS**

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WOW# : 92523569



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies, Address: Andrew Street, Report To: Andrew Street, Copy To: Andrew Street, Customer Project Name/Number: 2020-11-2448 Incident, Site/Facility ID #: [blank], Phone: [blank], Email: [blank], Collected By (print): NAWAN FITZ, Collected By (signature): NAWAN FITZ, Turnaround Date Required: ASAP, Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Site Collection Info/Address: 13800 Huntersville Concord Rd, State: NC, County/City: W. Huntersville, Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET, Compliance Monitoring? [ ] Yes [ ] No, DW PWS ID #: [blank], DW Location Code: [blank], Immediately Packed on Ice: [ ] Yes [ ] No, Field Filtered (if applicable): [ ] Yes [ ] No, Analysis: [blank], Matrix: DW, Comp / Grab: 6, Collected (or Composite Start) Date: 2-23-21, Time: 0755, # of Ctns: 8

Table with columns for Matrix, Comp / Grab, Collected (or Composite Start) Date, Time, Res Cl, Blue, Dry, None, Type of Ice Used, Packing Material Used, Radchem sample(s) screened (<500 cpm), Y, N, (NA), Date/Time, Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards: SHORT HOLDS PRESENT (<72 hours); Y N N/A, Lab Tracking #: 2560691, Samples received via: FEDEX UPS Client Courier Pace Courier, Date/Time: 2-23-21 13:35, Received by/Company: (Signature) NAWAN FITZ / Apex 1, Date/Time: 2-23-21 13:35, Received by/Company: (Signature) [blank], Date/Time: [blank], Received by/Company: (Signature) [blank]

March 09, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92525141

Dear Andrew Street:

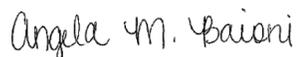
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525141

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525141

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525141001	13800_HC_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525141

**Sample: 13800\_HC\_RD\_20210302**    **Lab ID: 92525141001**    Collected: 03/02/21 08:00    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 04:58	03/05/21 04:58		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 04:58	03/05/21 04:58		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 04:58	03/05/21 04:58	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 04:58	03/05/21 04:58	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	85.3	%	70.0-130	1	03/05/21 04:58	03/05/21 04:58	615-59-8FID	
2,5-Dibromotoluene (PID)	88.2	%	70.0-130	1	03/05/21 04:58	03/05/21 04:58	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 15:03	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 14:26	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 14:26	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 14:26	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 14:26	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 14:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 14:26	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 14:26	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 14:26	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 14:26	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 14:26	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 14:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 14:26	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 14:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 14:26	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 14:26	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 14:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 14:26	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 14:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 14:26	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 14:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 14:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 14:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 14:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 14:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 14:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 14:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 14:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 14:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 14:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 14:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 14:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 14:26	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525141

**Sample:** 13800\_HC\_RD\_20210302    **Lab ID:** 92525141001    Collected: 03/02/21 08:00    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 14:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 14:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 14:26	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 14:26	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 14:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 14:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 14:26	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 14:26	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 14:26	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 14:26	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 14:26	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 14:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 14:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 14:26	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 14:26	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 14:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 14:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 14:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 14:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 14:26	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 14:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 14:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 14:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 14:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 14:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 14:26	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 14:26	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 14:26	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/03/21 14:26	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/03/21 14:26	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/03/21 14:26	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525141

QC Batch: 1629754	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525141001

METHOD BLANK: R3628624-2 Matrix: Water  
Associated Lab Samples: 92525141001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

Parameter	Units	R3628624-1		R3628624-3		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130		
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525141

QC Batch: 603744

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525141001

METHOD BLANK: 3180706

Matrix: Water

Associated Lab Samples: 92525141001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	470	468	94	94	75-125	0		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525141

QC Batch: 603734 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525141001

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525141001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525141

METHOD BLANK: 3180666

Matrix: Water

Associated Lab Samples: 92525141001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525141

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525141

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180668 3180669												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525135001 Result	Spike Conc.	Spike Conc.	MS Result							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5		
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	22.2	110	111	60-140	1		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	22.6	108	113	60-140	5		
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	22.0	108	110	60-140	1		
1,1-Dichloroethane	ug/L	ND	20	20	21.2	21.1	106	105	60-140	0		
1,1-Dichloroethene	ug/L	ND	20	20	22.9	22.8	114	114	60-140	0		
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.5	22.3	108	112	60-140	4		
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	22.5	107	113	60-140	5		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3		
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2		
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1		
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1		
1,3-Dichlorobenzene	ug/L	ND	20	20	21.7	21.3	109	107	60-140	2		
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1		
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	20.7	109	103	60-140	5		
2,2-Dichloropropane	ug/L	ND	20	20	23.4	22.9	117	115	60-140	2		
2-Chlorotoluene	ug/L	ND	20	20	21.7	21.4	108	107	60-140	1		
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2		
Benzene	ug/L	ND	20	20	22.0	22.0	110	110	60-140	0		
Bromobenzene	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4		
Bromochloromethane	ug/L	ND	20	20	22.2	22.1	111	110	60-140	1		
Bromodichloromethane	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2		
Bromoform	ug/L	ND	20	20	17.5	18.4	87	92	60-140	5		
Bromomethane	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2		
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.8	113	119	60-140	5		
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	106	109	60-140	2		
Chloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1		
Chloroform	ug/L	ND	20	20	20.7	21.1	103	105	60-140	2		
Chloromethane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4		
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1		
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.1	22.9	111	115	60-140	4		
Dibromochloromethane	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2		
Dibromomethane	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0		
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3		
Diisopropyl ether	ug/L	ND	20	20	18.5	18.9	93	95	60-140	2		
Ethylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	60-140	2		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1		
m&p-Xylene	ug/L	ND	40	40	43.3	44.6	108	111	60-140	3		
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3		
Methylene Chloride	ug/L	ND	20	20	17.9	17.9	89	90	60-140	1		

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: 2020-L1-2448 Incident

Pace Project No.: 92525141

Parameter	Units	3180668		3180669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525135001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3		
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4		
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0		
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0		
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2		
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3		
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3		
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0		
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2		
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3		
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5		
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0		
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3		
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5		
1,2-Dichloroethane-d4 (S)	%						96	96	70-130			
4-Bromofluorobenzene (S)	%						100	102	70-130			
Toluene-d8 (S)	%						97	100	70-130			

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: 2020-L1-2448 Incident

Pace Project No.: 92525141

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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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 Incident

Pace Project No.: 92525141

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525141001	13800_HC_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525141001	13800_HC_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525141001	13800_HC_RD_20210302	SM 6200B	603734		

**REPORT OF LABORATORY ANALYSIS**

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Company: Apex Companies  
 Billing Information:  
 Address: Apex Companies  
 Report To: Andrew Street  
 Email To: Andrew.Street@apexcs.com

Customer/Project Name/Number: 2026-LI-2448 Incident  
 Site/Facility ID #: NC / Huntsville  
 State: County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone: [ ] Yes [ ] No Compliance Monitoring?  
 Email: [ ] Yes [ ] No  
 Purchased By (print):  
 Quote #:  
 Turnaround Date Required: DW PWS ID #:  
 DW Location Code:  
 Immediately Packed on Ice:  
 [ ] Yes [ ] No

Collected By (signature): Maami Futz  
 Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 Disposed as appropriate: [ ] Return [ ] Archive: [ ] Hold:  
 Analysis: \_\_\_\_\_

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Composite End Date	Res Cl	# of Chns
13800 HR PD 2016302	DW	G	3-22-16 0800			8

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: Wet  Blue  Dry  None   
 Packing Material Used: BB

Radchem sample(s) screened (<500 cpm): Y N NA  
 Received by/Company: (Signature) Date/Time: 3-22-16 1705

Relinquished by/Company: (Signature) Date/Time:  
 Relinquished by/Company: (Signature) Date/Time:

Container Preserve: ALL  
 92525141

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:	Lab Sample Receipt Checklist:	Lab Sample # / Comments:
VOCs 6200B MADEP UPH Lead	Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Solids Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: Y N NA Sample pH Acceptable Y N NA pH Strips: 223819AN Y N NA Sulfide Present Y N NA Lead Acetate Strips: Y N NA	LAB USE ONLY: Lab Sample # / Comments:	LAB USE ONLY: Lab Sample # / Comments:

SHORT HOLDS PRESENT (<72 hours): Y N N/A  
 Lab Tracking #: 2616173

Samples received via: FEDEX UPS (Client)  
 Courier: MTL LAB USE ONLY  
 Date/Time: 3-22-16 1705

Received by/Company: (Signature) Date/Time:  
 Received by/Company: (Signature) Date/Time:

Temp Blank Received: Y N NA  
 Therm ID#: 927084  
 Cooler 1 Temp Upon Receipt: 27.0 C  
 Cooler 1 Therm Corr Factor: 0.0 C  
 Cooler 1 Corrected Temp: 1.1 C  
 Comments:

Trip Blank Received: Y N NA  
 HCL MEOH TSP Other  
 Non Conformance(s): YES / NO  
 Page: of:



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

Project #

**WO# : 92525141**

PM: AMB

Due Date: 03/09/21

CLIENT: 92-APEX MOOR

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

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

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 Na2SO3 (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																												
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).

March 15, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92526632

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526632

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92526632

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526632001	13800_HC_RD_20210309	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526632

**Sample:** 13800\_HC\_RD\_20210309    **Lab ID:** 92526632001    Collected: 03/09/21 08:30    Received: 03/09/21 17:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 19:54	03/12/21 19:54		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 19:54	03/12/21 19:54		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 19:54	03/12/21 19:54	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 19:54	03/12/21 19:54	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	95.0	%	70.0-130	1	03/12/21 19:54	03/12/21 19:54	615-59-8FID	
2,5-Dibromotoluene (PID)	91.4	%	70.0-130	1	03/12/21 19:54	03/12/21 19:54	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/12/21 02:20	03/12/21 16:21	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 17:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 17:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 17:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 17:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 17:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 17:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 17:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 17:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 17:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 17:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 17:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 17:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 17:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 17:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 17:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 17:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 17:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 17:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 17:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 17:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 17:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 17:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 17:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 17:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 17:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 17:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 17:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 17:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 17:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 17:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 17:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 17:57	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526632

Sample: 13800_HC_RD_20210309	Lab ID: 92526632001	Collected: 03/09/21 08:30	Received: 03/09/21 17:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 17:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 17:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 17:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 17:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 17:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 17:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 17:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 17:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 17:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 17:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 17:57	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 17:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 17:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 17:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 17:57	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 17:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 17:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 17:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 17:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 17:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 17:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 17:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 17:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 17:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 17:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 17:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 17:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 17:57	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/12/21 17:57	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		03/12/21 17:57	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 17:57	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526632

QC Batch: 1633636

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526632001

METHOD BLANK: R3630856-3

Matrix: Water

Associated Lab Samples: 92526632001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/12/21 08:56	
Aliphatic (C09-C12)	ug/L	ND	100	03/12/21 08:56	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/12/21 08:56	
Total VPH	ug/L	ND	100	03/12/21 08:56	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	03/12/21 08:56	
2,5-Dibromotoluene (PID)	%	90.8	70.0-130	03/12/21 08:56	

LABORATORY CONTROL SAMPLE & LCSD: R3630856-1 R3630856-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1310	1300	109	108	70.0-130	0.766	25	
Aliphatic (C09-C12)	ug/L	1400	1660	1640	119	117	70.0-130	1.21	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	229	226	115	113	70.0-130	1.32	25	
Total VPH	ug/L	2800	3200	3170	114	113	70.0-130	0.942	25	
2,5-Dibromotoluene (FID)	%				94.3	99.6	70.0-130			
2,5-Dibromotoluene (PID)	%				93.2	97.1	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526632

QC Batch: 606129	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526632001

METHOD BLANK: 3193371 Matrix: Water  
Associated Lab Samples: 92526632001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/12/21 15:10	

LABORATORY CONTROL SAMPLE: 3193372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193373 3193374

Parameter	Units	92526300006		3193374		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	477	478	95	95	75-125	0

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526632

QC Batch: 606229 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526632001

METHOD BLANK: 3193729 Matrix: Water  
Associated Lab Samples: 92526632001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 10:45	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/12/21 10:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 10:45	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/12/21 10:45	
1,1-Dichloroethane	ug/L	ND	0.50	03/12/21 10:45	
1,1-Dichloroethene	ug/L	ND	0.50	03/12/21 10:45	
1,1-Dichloropropene	ug/L	ND	0.50	03/12/21 10:45	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/12/21 10:45	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/12/21 10:45	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/12/21 10:45	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/12/21 10:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/12/21 10:45	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/12/21 10:45	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/12/21 10:45	
1,2-Dichloroethane	ug/L	ND	0.50	03/12/21 10:45	
1,2-Dichloropropane	ug/L	ND	0.50	03/12/21 10:45	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/12/21 10:45	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/12/21 10:45	
1,3-Dichloropropane	ug/L	ND	0.50	03/12/21 10:45	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/12/21 10:45	
2,2-Dichloropropane	ug/L	ND	0.50	03/12/21 10:45	
2-Chlorotoluene	ug/L	ND	0.50	03/12/21 10:45	
4-Chlorotoluene	ug/L	ND	0.50	03/12/21 10:45	
Benzene	ug/L	ND	0.50	03/12/21 10:45	
Bromobenzene	ug/L	ND	0.50	03/12/21 10:45	
Bromochloromethane	ug/L	ND	0.50	03/12/21 10:45	
Bromodichloromethane	ug/L	ND	0.50	03/12/21 10:45	
Bromoform	ug/L	ND	0.50	03/12/21 10:45	
Bromomethane	ug/L	ND	5.0	03/12/21 10:45	
Carbon tetrachloride	ug/L	ND	0.50	03/12/21 10:45	
Chlorobenzene	ug/L	ND	0.50	03/12/21 10:45	
Chloroethane	ug/L	ND	1.0	03/12/21 10:45	
Chloroform	ug/L	ND	0.50	03/12/21 10:45	
Chloromethane	ug/L	ND	1.0	03/12/21 10:45	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 10:45	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 10:45	
Dibromochloromethane	ug/L	ND	0.50	03/12/21 10:45	
Dibromomethane	ug/L	ND	0.50	03/12/21 10:45	
Dichlorodifluoromethane	ug/L	ND	0.50	03/12/21 10:45	
Diisopropyl ether	ug/L	ND	0.50	03/12/21 10:45	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526632

METHOD BLANK: 3193729 Matrix: Water  
Associated Lab Samples: 92526632001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/12/21 10:45	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/12/21 10:45	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/12/21 10:45	
m&p-Xylene	ug/L	ND	1.0	03/12/21 10:45	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/12/21 10:45	
Methylene Chloride	ug/L	ND	2.0	03/12/21 10:45	
n-Butylbenzene	ug/L	ND	0.50	03/12/21 10:45	
n-Propylbenzene	ug/L	ND	0.50	03/12/21 10:45	
Naphthalene	ug/L	ND	2.0	03/12/21 10:45	
o-Xylene	ug/L	ND	0.50	03/12/21 10:45	
sec-Butylbenzene	ug/L	ND	0.50	03/12/21 10:45	
Styrene	ug/L	ND	0.50	03/12/21 10:45	
tert-Butylbenzene	ug/L	ND	0.50	03/12/21 10:45	
Tetrachloroethene	ug/L	ND	0.50	03/12/21 10:45	
Toluene	ug/L	ND	0.50	03/12/21 10:45	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 10:45	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 10:45	
Trichloroethene	ug/L	ND	0.50	03/12/21 10:45	
Trichlorofluoromethane	ug/L	ND	1.0	03/12/21 10:45	
Vinyl chloride	ug/L	ND	1.0	03/12/21 10:45	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/12/21 10:45	
4-Bromofluorobenzene (S)	%	88	70-130	03/12/21 10:45	
Toluene-d8 (S)	%	96	70-130	03/12/21 10:45	

LABORATORY CONTROL SAMPLE: 3193730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.9	106	60-140	
1,1,1-Trichloroethane	ug/L	50	51.5	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	60-140	
1,1,2-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1-Dichloroethane	ug/L	50	51.1	102	60-140	
1,1-Dichloroethene	ug/L	50	53.9	108	60-140	
1,1-Dichloropropene	ug/L	50	50.5	101	60-140	
1,2,3-Trichlorobenzene	ug/L	50	49.2	98	60-140	
1,2,3-Trichloropropane	ug/L	50	47.9	96	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.4	103	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.2	102	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	54.8	110	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.6	105	60-140	
1,2-Dichlorobenzene	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane	ug/L	50	49.3	99	60-140	
1,2-Dichloropropane	ug/L	50	54.4	109	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.8	100	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526632

LABORATORY CONTROL SAMPLE: 3193730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.2	104	60-140	
1,3-Dichloropropane	ug/L	50	51.1	102	60-140	
1,4-Dichlorobenzene	ug/L	50	51.0	102	60-140	
2,2-Dichloropropane	ug/L	50	53.4	107	60-140	
2-Chlorotoluene	ug/L	50	52.4	105	60-140	
4-Chlorotoluene	ug/L	50	51.7	103	60-140	
Benzene	ug/L	50	52.7	105	60-140	
Bromobenzene	ug/L	50	52.9	106	60-140	
Bromochloromethane	ug/L	50	50.7	101	60-140	
Bromodichloromethane	ug/L	50	51.0	102	60-140	
Bromoform	ug/L	50	47.0	94	60-140	
Bromomethane	ug/L	50	63.3	127	60-140	
Carbon tetrachloride	ug/L	50	54.5	109	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	46.3	93	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	42.1	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.4	97	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.1	110	60-140	
Dibromochloromethane	ug/L	50	55.3	111	60-140	
Dibromomethane	ug/L	50	54.0	108	60-140	
Dichlorodifluoromethane	ug/L	50	49.1	98	60-140	
Diisopropyl ether	ug/L	50	47.4	95	60-140	
Ethylbenzene	ug/L	50	50.6	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.1	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.7	103	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	49.8	100	60-140	
Methylene Chloride	ug/L	50	46.4	93	60-140	
n-Butylbenzene	ug/L	50	51.1	102	60-140	
n-Propylbenzene	ug/L	50	50.9	102	60-140	
Naphthalene	ug/L	50	51.2	102	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	50.8	102	60-140	
Styrene	ug/L	50	52.6	105	60-140	
tert-Butylbenzene	ug/L	50	44.9	90	60-140	
Tetrachloroethene	ug/L	50	51.0	102	60-140	
Toluene	ug/L	50	50.2	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.9	104	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.5	109	60-140	
Trichloroethene	ug/L	50	54.3	109	60-140	
Trichlorofluoromethane	ug/L	50	48.5	97	60-140	
Vinyl chloride	ug/L	50	44.9	90	60-140	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526632

Parameter	92525823020		MS	MSD	3193731		3193732		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	100	100	118	118	118	118	60-140		0		
1,1,1-Trichloroethane	ug/L	ND	100	100	122	116	122	116	60-140		6		
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	118	118	118	118	60-140		1		
1,1,2-Trichloroethane	ug/L	ND	100	100	116	119	116	119	60-140		2		
1,1-Dichloroethane	ug/L	ND	100	100	117	111	117	111	60-140		5		
1,1-Dichloroethene	ug/L	ND	100	100	125	120	125	120	60-140		4		
1,1-Dichloropropene	ug/L	ND	100	100	122	121	122	121	60-140		1		
1,2,3-Trichlorobenzene	ug/L	ND	100	100	111	121	111	121	60-140		8		
1,2,3-Trichloropropane	ug/L	ND	100	100	116	119	116	119	60-140		2		
1,2,4-Trichlorobenzene	ug/L	ND	100	100	108	125	108	125	60-140		14		
1,2,4-Trimethylbenzene	ug/L	447	100	100	478	489	31	41	60-140		2	M1	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	111	120	111	120	60-140		8		
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	122	123	122	123	60-140		1		
1,2-Dichlorobenzene	ug/L	ND	100	100	110	116	110	116	60-140		6		
1,2-Dichloroethane	ug/L	ND	100	100	116	114	116	114	60-140		2		
1,2-Dichloropropane	ug/L	ND	100	100	115	114	115	114	60-140		2		
1,3,5-Trimethylbenzene	ug/L	ND	100	100	211	215	211	215	60-140		2	M1	
1,3-Dichlorobenzene	ug/L	ND	100	100	114	113	114	113	60-140		1		
1,3-Dichloropropane	ug/L	ND	100	100	118	117	118	117	60-140		2		
1,4-Dichlorobenzene	ug/L	ND	100	100	110	114	110	114	60-140		4		
2,2-Dichloropropane	ug/L	ND	100	100	110	104	110	104	60-140		5		
2-Chlorotoluene	ug/L	ND	100	100	106	109	106	109	60-140		3		
4-Chlorotoluene	ug/L	ND	100	100	112	112	112	112	60-140		0		
Benzene	ug/L	560	100	100	677	688	118	128	60-140		2		
Bromobenzene	ug/L	ND	100	100	111	113	111	113	60-140		1		
Bromochloromethane	ug/L	ND	100	100	121	118	121	118	60-140		3		
Bromodichloromethane	ug/L	ND	100	100	114	114	114	114	60-140		1		
Bromoform	ug/L	ND	100	100	98.5	100	98	100	60-140		2		
Bromomethane	ug/L	ND	100	100	108	110	108	110	60-140		1		
Carbon tetrachloride	ug/L	ND	100	100	120	120	120	120	60-140		0		
Chlorobenzene	ug/L	ND	100	100	117	116	117	116	60-140		0		
Chloroethane	ug/L	ND	100	100	121	114	121	114	60-140		5		
Chloroform	ug/L	ND	100	100	115	114	115	114	60-140		1		
Chloromethane	ug/L	ND	100	100	89.6	92.9	90	93	60-140		4		
cis-1,2-Dichloroethene	ug/L	ND	100	100	111	107	111	107	60-140		4		
cis-1,3-Dichloropropene	ug/L	ND	100	100	115	117	115	117	60-140		1		
Dibromochloromethane	ug/L	ND	100	100	115	117	115	117	60-140		2		
Dibromomethane	ug/L	ND	100	100	119	118	119	118	60-140		0		
Dichlorodifluoromethane	ug/L	ND	100	100	112	111	112	111	60-140		1		
Diisopropyl ether	ug/L	ND	100	100	104	102	104	102	60-140		2		
Ethylbenzene	ug/L	114	100	100	224	219	110	105	60-140		2		
Hexachloro-1,3-butadiene	ug/L	ND	100	100	110	117	110	117	60-140		6		
Isopropylbenzene (Cumene)	ug/L	30.5	100	100	145	144	115	113	60-140		1		
m&p-Xylene	ug/L	450	200	200	629	632	90	91	60-140		0		
Methyl-tert-butyl ether	ug/L	25.8	100	100	135	132	109	107	60-140		2		
Methylene Chloride	ug/L	ND	100	100	107	104	107	104	60-140		2		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526632

Parameter	92525823020		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	52.7	100	100	145	152	92	100	60-140	5				
n-Propylbenzene	ug/L	ND	100	100	149	150	149	150	60-140	1	M1			
Naphthalene	ug/L	98.4	100	100	178	188	80	90	60-140	6				
o-Xylene	ug/L	331	100	100	421	421	90	90	60-140	0				
sec-Butylbenzene	ug/L	ND	100	100	132	137	132	137	60-140	4				
Styrene	ug/L	ND	100	100	121	117	119	115	60-140	3				
tert-Butylbenzene	ug/L	ND	100	100	95.6	96.8	96	97	60-140	1				
Tetrachloroethene	ug/L	ND	100	100	116	115	116	115	60-140	1				
Toluene	ug/L	187	100	100	286	293	99	106	60-140	2				
trans-1,2-Dichloroethene	ug/L	ND	100	100	114	111	114	111	60-140	3				
trans-1,3-Dichloropropene	ug/L	ND	100	100	111	112	111	112	60-140	0				
Trichloroethene	ug/L	ND	100	100	119	121	119	121	60-140	2				
Trichlorofluoromethane	ug/L	ND	100	100	117	112	117	112	60-140	4				
Vinyl chloride	ug/L	ND	100	100	107	104	107	104	60-140	3				
1,2-Dichloroethane-d4 (S)	%						99	97	70-130					
4-Bromofluorobenzene (S)	%						99	100	70-130					
Toluene-d8 (S)	%						97	100	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526632

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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.

### ANALYTE QUALIFIERS

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

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526632

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526632001	13800_HC_RD_20210309	MADEPV	1633636	MADEP VPH	1633636
92526632001	13800_HC_RD_20210309	EPA 3010A	606129	EPA 6010D	606150
92526632001	13800_HC_RD_20210309	SM 6200B	606229		

**REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical**  
 Company: Apex Companies  
 Address: Andrew Street  
 Report To: Andrew Street  
 Copy To: Andrew Street & Apexcos.com  
 Email To: Andrew Street & Apexcos.com  
 Site Collection Info/Address: Andrew Street & Apexcos.com

Customer Project Name/Number: 2020-41-2448 Incident  
 Phone: NC 1 Huntersville  
 Email: NC 1 Huntersville  
 State: NC  
 County/City: Huntersville  
 Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET  
 Site/Facility ID #: [ ] Yes [ ] No  
 Compliance Monitoring?  
 Collected By (print): Naomi Fretz  
 Purchase Order #: DW PWS ID #: [ ] Yes [ ] No  
 Quote #: DW Location Code: [ ] Yes [ ] No  
 Turnaround Date Required: ASAP  
 Immediately Packed on Ice: [ ] Yes [ ] No  
 Rush: [ ] Same Day [ ] Next Day  
 [ ] 12 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 (Expedite Charges Apply)  
 Sample Disposal: [ ] Dispose as appropriate [ ] Return  
 [ ] Archive: [ ] Hold:  
 Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res CI	# of Ctns
			Date	Time		
13800-NC-ED-20210309	DW	G	3-9-21	0830		8

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet  
 Packing Material Used: bubble bag  
 Radchem sample(s) screened (<500 cpm): Y N (NA)  
 Date/Time: 3-9-21 / 1755  
 Received by/Company: (Signature) HAD PACE HVL  
 Relinquished by/Company: (Signature) Naomi Fretz / Apex  
 Date/Time: 3-9-21 / 1755  
 Received by/Company: (Signature)  
 Relinquished by/Company: (Signature)  
 Date/Time: \_\_\_\_\_  
 Received by/Company: (Signature)  
 Date/Time: \_\_\_\_\_

LAB USE OF

Work Order List Pace Workorder Number or  
**WO# : 92526632**



Container

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) acetic acid, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:	Lab Sample Receipt Checklist:
UCLs 6200B	Lead	Custody Seals Present/Intact Y N NA
MADFP VPH		Custody Signatures Present Y N NA
		Collector Signatures Present Y N NA
		Bottles Intact Y N NA
		Correct Bottles Y N NA
		Sufficient Volume Y N NA
		Samples Received on Ice Y N NA
		VOA - Headspace Acceptable Y N NA
		USDA Regulated Soils Y N NA
		Samples in Holding Time Y N NA
		Residual Chlorine Present Y N NA
		Cl Strips: Y N NA
		Sample pH Acceptable Y N NA
		pH Strips: 223919AV Y N NA
		Sulfide Present Y N NA
		Lead Acetate Strips: Y N NA
		LAB USE ONLY:
		Lab Sample # / Comments: 92526632
		061

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: 92526632  
 Cooler 1 Temp Upon Receipt: 23.8 oC  
 Cooler 1 Therm Corr. Factor: 0.0 oC  
 Cooler 1 Corrected Temp: 23.8 oC  
 Comments:

Lab Tracking #: 2615863  
 Samples received via: FEDEX UPS Client Courier Pace Courier  
 Date/Time: 3/9/21 1755  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Table #: \_\_\_\_\_  
 Acctnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_

Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES (NO) of: \_\_\_\_\_

March 22, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92527865

Dear Andrew Street:

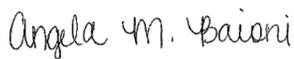
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527865

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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

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 ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92527865

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527865001	13800_HC_RD_20210316	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527865

Sample: 13800_HC_RD_20210316	Lab ID: 92527865001	Collected: 03/16/21 08:35	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/18/21 05:34		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/18/21 05:34		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/18/21 05:34		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/18/21 05:34		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	106	%	70-130	1		03/18/21 05:34	460-00-4	
4-Bromofluorobenzene (PID) (S)	101	%	70-130	1		03/18/21 05:34	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>12.1</b>	ug/L	5.0	1	03/17/21 16:09	03/18/21 22:36	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/19/21 20:23	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/19/21 20:23	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/19/21 20:23	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/19/21 20:23	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/19/21 20:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/19/21 20:23	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:23	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:23	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:23	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/19/21 20:23	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/19/21 20:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/19/21 20:23	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/19/21 20:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/19/21 20:23	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 20:23	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 20:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/19/21 20:23	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/19/21 20:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/19/21 20:23	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/19/21 20:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/19/21 20:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/19/21 20:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/19/21 20:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:23	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527865

Sample: 13800_HC_RD_20210316	Lab ID: 92527865001	Collected: 03/16/21 08:35	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:23	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/19/21 20:23	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/19/21 20:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/19/21 20:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/19/21 20:23	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/19/21 20:23	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/19/21 20:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/19/21 20:23	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/19/21 20:23	103-65-1	
Styrene	ND	ug/L	0.50	1		03/19/21 20:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 20:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 20:23	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/19/21 20:23	127-18-4	
Toluene	ND	ug/L	0.50	1		03/19/21 20:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 20:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 20:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/19/21 20:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/19/21 20:23	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/19/21 20:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/19/21 20:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/19/21 20:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 20:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 20:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/19/21 20:23	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/19/21 20:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/19/21 20:23	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/19/21 20:23	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		03/19/21 20:23	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/19/21 20:23	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527865

QC Batch: 607250

Analysis Method: MADEP VPH

QC Batch Method: MADEP VPH

Analysis Description: VPH NC Water

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527865001

METHOD BLANK: 3199083

Matrix: Water

Associated Lab Samples: 92527865001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/17/21 15:18	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/17/21 15:18	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/17/21 15:18	N2
4-Bromofluorobenzene (FID) (S)	%	110	70-130	03/17/21 15:18	
4-Bromofluorobenzene (PID) (S)	%	104	70-130	03/17/21 15:18	

LABORATORY CONTROL SAMPLE & LCSD: 3199084

3199085

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	331	354	110	118	70-130	7	25	N2
Aliphatic (C09-C12)	ug/L	300	349	357	116	119	70-130	2	25	N2
Aromatic (C09-C10)	ug/L	100	100	103	100	103	70-130	3	25	N2
4-Bromofluorobenzene (FID) (S)	%				108	115	70-130			
4-Bromofluorobenzene (PID) (S)	%				102	109	70-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527865

QC Batch: 607152

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92527865001

METHOD BLANK: 3198608

Matrix: Water

Associated Lab Samples: 92527865001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/18/21 22:07	

LABORATORY CONTROL SAMPLE: 3198609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198630 3198631

Parameter	Units	92527853001		3198631		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	499	498	99	99	75-125	0

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527865

QC Batch: 607961 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92527865001

METHOD BLANK: 3202611 Matrix: Water  
Associated Lab Samples: 92527865001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1-Dichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1-Dichloroethene	ug/L	ND	0.50	03/19/21 12:35	
1,1-Dichloropropene	ug/L	ND	0.50	03/19/21 12:35	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/19/21 12:35	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/19/21 12:35	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/19/21 12:35	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/19/21 12:35	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dichloropropane	ug/L	ND	0.50	03/19/21 12:35	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/19/21 12:35	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
1,3-Dichloropropane	ug/L	ND	0.50	03/19/21 12:35	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
2,2-Dichloropropane	ug/L	ND	0.50	03/19/21 12:35	
2-Chlorotoluene	ug/L	ND	0.50	03/19/21 12:35	
4-Chlorotoluene	ug/L	ND	0.50	03/19/21 12:35	
Benzene	ug/L	ND	0.50	03/19/21 12:35	
Bromobenzene	ug/L	ND	0.50	03/19/21 12:35	
Bromochloromethane	ug/L	ND	0.50	03/19/21 12:35	
Bromodichloromethane	ug/L	ND	0.50	03/19/21 12:35	
Bromoform	ug/L	ND	0.50	03/19/21 12:35	
Bromomethane	ug/L	ND	5.0	03/19/21 12:35	
Carbon tetrachloride	ug/L	ND	0.50	03/19/21 12:35	
Chlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
Chloroethane	ug/L	ND	1.0	03/19/21 12:35	
Chloroform	ug/L	ND	0.50	03/19/21 12:35	
Chloromethane	ug/L	ND	1.0	03/19/21 12:35	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 12:35	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 12:35	
Dibromochloromethane	ug/L	ND	0.50	03/19/21 12:35	
Dibromomethane	ug/L	ND	0.50	03/19/21 12:35	
Dichlorodifluoromethane	ug/L	ND	0.50	03/19/21 12:35	
Diisopropyl ether	ug/L	ND	0.50	03/19/21 12:35	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527865

METHOD BLANK: 3202611

Matrix: Water

Associated Lab Samples: 92527865001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/19/21 12:35	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/19/21 12:35	
m&p-Xylene	ug/L	ND	1.0	03/19/21 12:35	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/19/21 12:35	
Methylene Chloride	ug/L	ND	2.0	03/19/21 12:35	
n-Butylbenzene	ug/L	ND	0.50	03/19/21 12:35	
n-Propylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Naphthalene	ug/L	ND	2.0	03/19/21 12:35	
o-Xylene	ug/L	ND	0.50	03/19/21 12:35	
sec-Butylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Styrene	ug/L	ND	0.50	03/19/21 12:35	
tert-Butylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Tetrachloroethene	ug/L	ND	0.50	03/19/21 12:35	
Toluene	ug/L	ND	0.50	03/19/21 12:35	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 12:35	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 12:35	
Trichloroethene	ug/L	ND	0.50	03/19/21 12:35	
Trichlorofluoromethane	ug/L	ND	1.0	03/19/21 12:35	
Vinyl chloride	ug/L	ND	1.0	03/19/21 12:35	
1,2-Dichloroethane-d4 (S)	%	95	70-130	03/19/21 12:35	
4-Bromofluorobenzene (S)	%	94	70-130	03/19/21 12:35	
Toluene-d8 (S)	%	98	70-130	03/19/21 12:35	

LABORATORY CONTROL SAMPLE: 3202612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.7	93	60-140	
1,1,1-Trichloroethane	ug/L	50	43.3	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	44.0	88	60-140	
1,1,2-Trichloroethane	ug/L	50	45.9	92	60-140	
1,1-Dichloroethane	ug/L	50	43.2	86	60-140	
1,1-Dichloroethene	ug/L	50	45.5	91	60-140	
1,1-Dichloropropene	ug/L	50	44.3	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.2	94	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	60-140	
1,2,4-Trimethylbenzene	ug/L	50	44.8	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	46.2	92	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	46.2	92	60-140	
1,2-Dichlorobenzene	ug/L	50	47.5	95	60-140	
1,2-Dichloroethane	ug/L	50	40.2	80	60-140	
1,2-Dichloropropane	ug/L	50	44.1	88	60-140	
1,3,5-Trimethylbenzene	ug/L	50	44.4	89	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527865

LABORATORY CONTROL SAMPLE: 3202612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.5	97	60-140	
1,3-Dichloropropane	ug/L	50	44.3	89	60-140	
1,4-Dichlorobenzene	ug/L	50	48.6	97	60-140	
2,2-Dichloropropane	ug/L	50	45.6	91	60-140	
2-Chlorotoluene	ug/L	50	44.9	90	60-140	
4-Chlorotoluene	ug/L	50	44.6	89	60-140	
Benzene	ug/L	50	44.2	88	60-140	
Bromobenzene	ug/L	50	45.3	91	60-140	
Bromochloromethane	ug/L	50	46.8	94	60-140	
Bromodichloromethane	ug/L	50	42.7	85	60-140	
Bromoform	ug/L	50	46.0	92	60-140	
Bromomethane	ug/L	50	39.8	80	60-140	
Carbon tetrachloride	ug/L	50	47.9	96	60-140	
Chlorobenzene	ug/L	50	47.6	95	60-140	
Chloroethane	ug/L	50	44.4	89	60-140	
Chloroform	ug/L	50	44.2	88	60-140	
Chloromethane	ug/L	50	35.4	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	41.9	84	60-140	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	60-140	
Dibromochloromethane	ug/L	50	47.2	94	60-140	
Dibromomethane	ug/L	50	48.9	98	60-140	
Dichlorodifluoromethane	ug/L	50	45.7	91	60-140	
Diisopropyl ether	ug/L	50	39.4	79	60-140	
Ethylbenzene	ug/L	50	46.4	93	60-140	
Hexachloro-1,3-butadiene	ug/L	50	45.3	91	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.6	95	60-140	
m&p-Xylene	ug/L	100	93.4	93	60-140	
Methyl-tert-butyl ether	ug/L	50	42.3	85	60-140	
Methylene Chloride	ug/L	50	43.4	87	60-140	
n-Butylbenzene	ug/L	50	45.9	92	60-140	
n-Propylbenzene	ug/L	50	44.5	89	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	46.5	93	60-140	
sec-Butylbenzene	ug/L	50	45.4	91	60-140	
Styrene	ug/L	50	47.5	95	60-140	
tert-Butylbenzene	ug/L	50	38.2	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	46.8	94	60-140	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	60-140	
trans-1,3-Dichloropropene	ug/L	50	45.6	91	60-140	
Trichloroethene	ug/L	50	49.0	98	60-140	
Trichlorofluoromethane	ug/L	50	47.4	95	60-140	
Vinyl chloride	ug/L	50	41.5	83	60-140	
1,2-Dichloroethane-d4 (S)	%			93	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: 2020-L1-2448 Incident  
Pace Project No.: 92527865

Parameter	92527425008		MS	MSD	3202613		3202614		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4110	4170	103	104	60-140	2			
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4020	98	100	60-140	2			
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3930	4000	98	100	60-140	2			
1,1,2-Trichloroethane	ug/L	ND	4000	4000	4090	4120	102	103	60-140	1			
1,1-Dichloroethane	ug/L	ND	4000	4000	3770	3800	94	95	60-140	1			
1,1-Dichloroethene	ug/L	ND	4000	4000	4190	4210	105	105	60-140	1			
1,1-Dichloropropene	ug/L	ND	4000	4000	4000	4030	100	101	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	4080	4550	102	114	60-140	11			
1,2,3-Trichloropropane	ug/L	ND	4000	4000	4110	4370	103	109	60-140	6			
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	4310	4670	108	117	60-140	8			
1,2,4-Trimethylbenzene	ug/L	11100	4000	4000	15000	16600	99	138	60-140	10			
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	4070	4200	102	105	60-140	3			
1,2-Dibromoethane (EDB)	ug/L	ND	4000	4000	4080	4120	102	103	60-140	1			
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4240	4400	106	110	60-140	4			
1,2-Dichloroethane	ug/L	ND	4000	4000	3540	3570	88	89	60-140	1			
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3900	98	97	60-140	1			
1,3,5-Trimethylbenzene	ug/L	2940	4000	4000	6940	7440	100	113	60-140	7			
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4340	4490	108	112	60-140	3			
1,3-Dichloropropane	ug/L	ND	4000	4000	3920	4000	98	100	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4330	4490	108	112	60-140	4			
2,2-Dichloropropane	ug/L	ND	4000	4000	4130	4170	103	104	60-140	1			
2-Chlorotoluene	ug/L	ND	4000	4000	4560	4420	114	110	60-140	3			
4-Chlorotoluene	ug/L	ND	4000	4000	4040	4100	101	102	60-140	1			
Benzene	ug/L	7950	4000	4000	12000	12300	100	108	60-140	3			
Bromobenzene	ug/L	ND	4000	4000	4100	4140	103	103	60-140	1			
Bromochloromethane	ug/L	ND	4000	4000	4000	4010	100	100	60-140	0			
Bromodichloromethane	ug/L	ND	4000	4000	3720	3820	93	95	60-140	3			
Bromoform	ug/L	ND	4000	4000	3890	4030	97	101	60-140	4			
Bromomethane	ug/L	ND	4000	4000	3120	4120	78	103	60-140	27			
Carbon tetrachloride	ug/L	ND	4000	4000	4450	4430	111	111	60-140	1			
Chlorobenzene	ug/L	ND	4000	4000	4270	4340	107	108	60-140	1			
Chloroethane	ug/L	ND	4000	4000	5050	4990	126	125	60-140	1			
Chloroform	ug/L	ND	4000	4000	3650	3770	91	94	60-140	3			
Chloromethane	ug/L	ND	4000	4000	3070	3200	77	80	60-140	4			
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3680	3760	92	94	60-140	2			
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	4040	4090	101	102	60-140	1			
Dibromochloromethane	ug/L	ND	4000	4000	4080	4160	102	104	60-140	2			
Dibromomethane	ug/L	ND	4000	4000	4190	4320	105	108	60-140	3			
Dichlorodifluoromethane	ug/L	ND	4000	4000	4160	4230	104	106	60-140	2			
Diisopropyl ether	ug/L	ND	4000	4000	3340	3450	84	86	60-140	3			
Ethylbenzene	ug/L	4850	4000	4000	9040	9460	105	115	60-140	5			
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	4210	4660	105	116	60-140	10			
Isopropylbenzene (Cumene)	ug/L	413	4000	4000	4710	4850	107	111	60-140	3			
m&p-Xylene	ug/L	13700	8000	8000	22300	23400	108	121	60-140	5			
Methyl-tert-butyl ether	ug/L	ND	4000	4000	3760	3810	94	95	60-140	1			
Methylene Chloride	ug/L	ND	4000	4000	3780	3830	95	96	60-140	1			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527865

Parameter	92527425008		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	4000	4000	5150	5520	129	138	60-140	7				
n-Propylbenzene	ug/L	ND	4000	4000	5430	5710	136	143	60-140	5	M1			
Naphthalene	ug/L	3570	4000	4000	7380	8140	95	114	60-140	10				
o-Xylene	ug/L	5180	4000	4000	9300	9820	103	116	60-140	5				
sec-Butylbenzene	ug/L	ND	4000	4000	4420	4620	111	115	60-140	4				
Styrene	ug/L	ND	4000	4000	4220	4300	105	108	60-140	2				
tert-Butylbenzene	ug/L	ND	4000	4000	3560	3640	89	91	60-140	2				
Tetrachloroethene	ug/L	ND	4000	4000	4320	4330	108	108	60-140	0				
Toluene	ug/L	7220	4000	4000	11400	11500	104	108	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	3860	4040	96	101	60-140	5				
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	3930	4030	98	101	60-140	2				
Trichloroethene	ug/L	ND	4000	4000	4380	4430	110	111	60-140	1				
Trichlorofluoromethane	ug/L	ND	4000	4000	5000	5150	125	129	60-140	3				
Vinyl chloride	ug/L	ND	4000	4000	3730	3840	93	96	60-140	3				
1,2-Dichloroethane-d4 (S)	%						95	92	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						99	98	70-130					

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527865

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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.

### ANALYTE QUALIFIERS

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527865

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527865001	13800_HC_RD_20210316	MADEP VPH	607250		
92527865001	13800_HC_RD_20210316	EPA 3010A	607152	EPA 6010D	607431
92527865001	13800_HC_RD_20210316	SM 6200B	607961		

**REPORT OF LABORATORY ANALYSIS**

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# CHAIN-OF-CUSTODY Analytical Request Document

Company: **Pace Analytical**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: **Apex Companies**

Address:

Container #:

92527865



LAB USE OF  
**NO# : 92527865**

Per or

Report To: **Andrews Sheet**

Copy To:

Customer Project Name/Number: **2020-11-2448 Incident**

Site/Facility ID #:

State: **NC** County/City: **Wintersville Concord Rd**

Time Zone Collected: **PT MT CT ET**

Phone: **703 800 Wintersville**

Compliance Monitoring?  Yes  No

Collected By (print): **Marvin Getz**

Purchase Order #: **15800**

DW PWS ID #: **15800**

DW Location Code:

Turnaround Date Required: **ASAP**

Field Filtered (if applicable):  Yes  No

Sample Disposal: **ASAP**

Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Analysis: **VOCs 6200B MADEP VP# Lead**

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
13800-NC-00-20210316	DW	G	3-16-21	0835				X
								X
								X

Customer Remarks / Special Conditions / Possible Hazards: **SHORT HOLDS PRESENT (<72 hours): Y N N/A**

Type of Ice Used: **Med** Blue Dry None

Packing Material Used: **BB**

Radchem sample(s) screened (<500 cpm): Y N **NA**

Lab Tracking #: **2615899**

Samples received via: **Client** FEDEX UPS

Table #: **MTL LAB USE ONLY**

Temp Blank Received: **Y** **NA**

Therm ID#: **97064**

Cooler 1 Temp Upon Receipt: **1.1** °C

Cooler 1 Temp Corr. Factor: **0.0** °C

Cooler 1 Corrected Temp: **1.1** °C

Comments:

Tripp Blank Received: **Y** **NA**

HCL MeOH TSP Other

Non Conformance(s): **YES / NO** Page: **1** of: **1**

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line: **Lab Sample Receipt Checklist:**

- Custody Seals Present/Intact **Y** **NA**
- Custody Signatures Present **Y** **NA**
- Collector Signatures Present **Y** **NA**
- Bottles Intact **Y** **NA**
- Correct Bottles **Y** **NA**
- Sufficient Volume **Y** **NA**
- Samples Received on Ice **Y** **NA**
- VQA - Headspace Acceptable **Y** **NA**
- USDA Regulated Solids **Y** **NA**
- Samples in Holding Time **Y** **NA**
- Residual Chlorine Present **Y** **NA**
- Cl Strips: **Y** **NA**
- Sample pH Acceptable **Y** **NA**
- pH Strips: **Y** **NA**
- Sulfide Present **Y** **NA**
- Lead Acetate Strips: **Y** **NA**

LAB USE ONLY: Lab Sample # / Comments: **92527865 001**



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

Project #

**WO# : 92527865**

PM: AMB

Due Date: 03/23/21

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

CLIENT: 92-APEX MOOR

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

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																													
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.

March 15, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525138

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

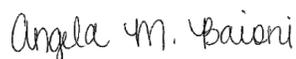
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised laboratory report is being submitted on 3/15/21 due to a sample ID entry error at log in.

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS

Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525138

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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 Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

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

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 ANALYTE COUNT

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525138

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525138001	13831_SIMS_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525138

**Sample: 13831\_SIMS\_RD\_20210302**    **Lab ID: 92525138001**    Collected: 03/02/21 12:30    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 09:29	03/05/21 09:29		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 09:29	03/05/21 09:29		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 09:29	03/05/21 09:29	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 09:29	03/05/21 09:29	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	88.7	%	70.0-130	1	03/05/21 09:29	03/05/21 09:29	615-59-8FID	
2,5-Dibromotoluene (PID)	94.1	%	70.0-130	1	03/05/21 09:29	03/05/21 09:29	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 14:57	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 14:08	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 14:08	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 14:08	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 14:08	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 14:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 14:08	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 14:08	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 14:08	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 14:08	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 14:08	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 14:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 14:08	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 14:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 14:08	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 14:08	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 14:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 14:08	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 14:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 14:08	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 14:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 14:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 14:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 14:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 14:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 14:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 14:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 14:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 14:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 14:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 14:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 14:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 14:08	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525138

**Sample:** 13831\_SIMS\_RD\_20210302    **Lab ID:** 92525138001    Collected: 03/02/21 12:30    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 14:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 14:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 14:08	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 14:08	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 14:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 14:08	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 14:08	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 14:08	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 14:08	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 14:08	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 14:08	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 14:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 14:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 14:08	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 14:08	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 14:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 14:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 14:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 14:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 14:08	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 14:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 14:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 14:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 14:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 14:08	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 14:08	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 14:08	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 14:08	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/03/21 14:08	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/03/21 14:08	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/03/21 14:08	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525138

QC Batch: 1629754

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525138001

METHOD BLANK: R3628624-2

Matrix: Water

Associated Lab Samples: 92525138001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

LABORATORY CONTROL SAMPLE & LCSD: R3628624-1 R3628624-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25	
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25	
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130			
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130			

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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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525138

QC Batch: 603744	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525138001

METHOD BLANK: 3180706 Matrix: Water  
Associated Lab Samples: 92525138001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	470	468	94	94	75-125	0		

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: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525138

QC Batch: 603734 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525138001

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525138001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525138

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525138001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525138

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525138

Parameter	92525135001		MS	MSD	3180668		3180669		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	22.2	110	111	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	22.6	108	113	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	22.0	108	110	60-140	1			
1,1-Dichloroethane	ug/L	ND	20	20	21.2	21.1	106	105	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	22.9	22.8	114	114	60-140	0			
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.5	22.3	108	112	60-140	4			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	22.5	107	113	60-140	5			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3			
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2			
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1			
1,3-Dichlorobenzene	ug/L	ND	20	20	21.7	21.3	109	107	60-140	2			
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	20.7	109	103	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.4	22.9	117	115	60-140	2			
2-Chlorotoluene	ug/L	ND	20	20	21.7	21.4	108	107	60-140	1			
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2			
Benzene	ug/L	ND	20	20	22.0	22.0	110	110	60-140	0			
Bromobenzene	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4			
Bromochloromethane	ug/L	ND	20	20	22.2	22.1	111	110	60-140	1			
Bromodichloromethane	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2			
Bromoform	ug/L	ND	20	20	17.5	18.4	87	92	60-140	5			
Bromomethane	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.8	113	119	60-140	5			
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	106	109	60-140	2			
Chloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1			
Chloroform	ug/L	ND	20	20	20.7	21.1	103	105	60-140	2			
Chloromethane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4			
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.1	22.9	111	115	60-140	4			
Dibromochloromethane	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
Dibromomethane	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3			
Diisopropyl ether	ug/L	ND	20	20	18.5	18.9	93	95	60-140	2			
Ethylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1			
m&p-Xylene	ug/L	ND	40	40	43.3	44.6	108	111	60-140	3			
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3			
Methylene Chloride	ug/L	ND	20	20	17.9	17.9	89	90	60-140	1			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525138

Parameter	92525135001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3			
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4			
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0			
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0			
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2			
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3			
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3			
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0			
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2			
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3			
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5			
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0			
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3			
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5			
1,2-Dichloroethane-d4 (S)	%						96	96	70-130				
4-Bromofluorobenzene (S)	%						100	102	70-130				
Toluene-d8 (S)	%						97	100	70-130				

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525138

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525138

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525138001	13831_SIMS_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525138001	13831_SIMS_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525138001	13831_SIMS_RD_20210302	SM 6200B	603734		

### REPORT OF LABORATORY ANALYSIS

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# Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY

MO#: 92525138

liber or

Company: Pace Companies  
Address: Apex Companies

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
Billing Information:

Container 1



92525138

Report To: Apex Street  
Copy To: 13831 Sims Rd

Email To: haddock@street&apex.com  
Site Collection Info/Address: 13831 Sims Rd

Customer Project Name/Number: 2020-11-2448 Incident

State: NC County/City: Asheville Time Zone Collected: PT | MT | CT | ET

Phone: Apex Site/Facility ID #:

Compliance Monitoring? Yes | No

Collected By (print): Alanna Fritz Purchase Order #:

DW PWS ID #: ASAP DW Location Code: Immediately Packed on Ice:

Collected By (signature): Alanna Fritz Turnaround Date Required:

Field Filtered (if applicable): Yes | No

Sample Disposal: Dispose as appropriate Rush: Same Day | Next Day

Analysis: UOLs 6200B

Archive: Hold [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

MADEP VPH

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Lead

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
<u>13831 STPS DD 20200302</u>	<u>OW</u>	<u>G</u>	<u>3-22-21</u>	<u>1230</u>				<u>X</u>
								<u>X</u>
								<u>X</u>

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2616167

Samples received via: Client FEDEX UPS Courier Pace Courier

MTIL LAB USE ONLY

Customer Remarks / Special Conditions / Possible Hazards:

Relinquished by/Company: (Signature) Naomi Fritz / Apex Date/Time: 3-22-21 1705

Relinquished by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time:

Temp Blank Received: NA  
Therm ID#: 9270824  
Cooler 1 Temp Upon Receipt: 11 °C  
Cooler 1 Therm Corr. Factor: 00 °C  
Cooler 1 Corrected Temp: 10 °C

Comments:

Trip Blank Received: Y N MA  
HCL MeOH TSP Other

Non Conformance(s): YES / NO NO

Page: 1 of: 1

February 24, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92522436

Dear Andrew Street:

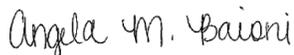
Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522436

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522436

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92522436001	13835_AC_RD_20210216	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522436

**Sample:** 13835\_AC\_RD\_20210216    **Lab ID:** 92522436001    Collected: 02/16/21 10:15    Received: 02/16/21 13:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/24/21 00:46	02/24/21 00:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/24/21 00:46	02/24/21 00:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/24/21 00:46	02/24/21 00:46	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/24/21 00:46	02/24/21 00:46	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	89.8	%	70.0-130	1	02/24/21 00:46	02/24/21 00:46	615-59-8FID	
2,5-Dibromotoluene (PID)	90.3	%	70.0-130	1	02/24/21 00:46	02/24/21 00:46	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/17/21 01:43	02/17/21 20:54	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/18/21 18:38	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/18/21 18:38	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/18/21 18:38	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/18/21 18:38	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/18/21 18:38	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/18/21 18:38	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:38	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:38	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:38	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/18/21 18:38	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/18/21 18:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/21 18:38	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/18/21 18:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/21 18:38	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 18:38	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 18:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/18/21 18:38	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/18/21 18:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/18/21 18:38	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/18/21 18:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/18/21 18:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/18/21 18:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/18/21 18:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:38	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522436

**Sample: 13835\_AC\_RD\_20210216**    **Lab ID: 92522436001**    Collected: 02/16/21 10:15    Received: 02/16/21 13:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:38	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/18/21 18:38	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/18/21 18:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/18/21 18:38	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/18/21 18:38	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/18/21 18:38	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/18/21 18:38	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/18/21 18:38	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/18/21 18:38	103-65-1	
Styrene	ND	ug/L	0.50	1		02/18/21 18:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 18:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 18:38	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/18/21 18:38	127-18-4	
Toluene	ND	ug/L	0.50	1		02/18/21 18:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 18:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 18:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/18/21 18:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/18/21 18:38	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/18/21 18:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/21 18:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/18/21 18:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 18:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 18:38	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/21 18:38	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/18/21 18:38	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/18/21 18:38	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/18/21 18:38	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		02/18/21 18:38	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/18/21 18:38	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522436

QC Batch: 1624518

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92522436001

METHOD BLANK: R3624660-3

Matrix: Water

Associated Lab Samples: 92522436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/23/21 20:45	
Aliphatic (C09-C12)	ug/L	ND	100	02/23/21 20:45	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/23/21 20:45	
Total VPH	ug/L	ND	100	02/23/21 20:45	
2,5-Dibromotoluene (FID)	%	83.6	70.0-130	02/23/21 20:45	
2,5-Dibromotoluene (PID)	%	83.6	70.0-130	02/23/21 20:45	

LABORATORY CONTROL SAMPLE & LCSD: R3624660-1 R3624660-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1010	996	84.2	83.0	70.0-130	1.40	25	
Aliphatic (C09-C12)	ug/L	1400	1380	1390	98.6	99.3	70.0-130	0.722	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	197	195	98.5	97.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2590	2580	92.5	92.1	70.0-130	0.387	25	
2,5-Dibromotoluene (FID)	%				81.5	93.5	70.0-130			
2,5-Dibromotoluene (PID)	%				81.3	93.3	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522436

QC Batch: 600518

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92522436001

METHOD BLANK: 3165294

Matrix: Water

Associated Lab Samples: 92522436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/17/21 19:11	

LABORATORY CONTROL SAMPLE: 3165295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165296 3165297

Parameter	Units	92521876001		3165296		3165297		% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Lead	ug/L	ND	500	500	519	516	104	103	75-125	0

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522436

QC Batch: 600709      Analysis Method: SM 6200B  
QC Batch Method: SM 6200B      Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92522436001

METHOD BLANK: 3165931      Matrix: Water  
Associated Lab Samples: 92522436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/18/21 11:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/18/21 11:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/18/21 11:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
1,3-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
2,2-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
2-Chlorotoluene	ug/L	ND	0.50	02/18/21 11:49	
4-Chlorotoluene	ug/L	ND	0.50	02/18/21 11:49	
Benzene	ug/L	ND	0.50	02/18/21 11:49	
Bromobenzene	ug/L	ND	0.50	02/18/21 11:49	
Bromochloromethane	ug/L	ND	0.50	02/18/21 11:49	
Bromodichloromethane	ug/L	ND	0.50	02/18/21 11:49	
Bromoform	ug/L	ND	0.50	02/18/21 11:49	
Bromomethane	ug/L	ND	5.0	02/18/21 11:49	
Carbon tetrachloride	ug/L	ND	0.50	02/18/21 11:49	
Chlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
Chloroethane	ug/L	ND	1.0	02/18/21 11:49	
Chloroform	ug/L	ND	0.50	02/18/21 11:49	
Chloromethane	ug/L	ND	1.0	02/18/21 11:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
Dibromochloromethane	ug/L	ND	0.50	02/18/21 11:49	
Dibromomethane	ug/L	ND	0.50	02/18/21 11:49	
Dichlorodifluoromethane	ug/L	ND	0.50	02/18/21 11:49	
Diisopropyl ether	ug/L	ND	0.50	02/18/21 11:49	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522436

METHOD BLANK: 3165931 Matrix: Water  
Associated Lab Samples: 92522436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/18/21 11:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/18/21 11:49	
m&p-Xylene	ug/L	ND	1.0	02/18/21 11:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/18/21 11:49	
Methylene Chloride	ug/L	ND	2.0	02/18/21 11:49	
n-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
n-Propylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Naphthalene	ug/L	ND	2.0	02/18/21 11:49	
o-Xylene	ug/L	ND	0.50	02/18/21 11:49	
sec-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Styrene	ug/L	ND	0.50	02/18/21 11:49	
tert-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Tetrachloroethene	ug/L	ND	0.50	02/18/21 11:49	
Toluene	ug/L	ND	0.50	02/18/21 11:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
Trichloroethene	ug/L	ND	0.50	02/18/21 11:49	
Trichlorofluoromethane	ug/L	ND	1.0	02/18/21 11:49	
Vinyl chloride	ug/L	ND	1.0	02/18/21 11:49	
1,2-Dichloroethane-d4 (S)	%	90	70-130	02/18/21 11:49	
4-Bromofluorobenzene (S)	%	100	70-130	02/18/21 11:49	
Toluene-d8 (S)	%	103	70-130	02/18/21 11:49	

LABORATORY CONTROL SAMPLE: 3165932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	60-140	
1,1,1-Trichloroethane	ug/L	50	45.8	92	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	60-140	
1,1,2-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1-Dichloroethane	ug/L	50	47.0	94	60-140	
1,1-Dichloroethene	ug/L	50	49.4	99	60-140	
1,1-Dichloropropene	ug/L	50	50.2	100	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.6	101	60-140	
1,2,3-Trichloropropane	ug/L	50	46.2	92	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.8	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.2	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.9	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	60-140	
1,2-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,2-Dichloroethane	ug/L	50	45.4	91	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	46.8	94	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522436

LABORATORY CONTROL SAMPLE: 3165932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	48.4	97	60-140	
1,4-Dichlorobenzene	ug/L	50	48.5	97	60-140	
2,2-Dichloropropane	ug/L	50	47.2	94	60-140	
2-Chlorotoluene	ug/L	50	49.7	99	60-140	
4-Chlorotoluene	ug/L	50	45.9	92	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	45.9	92	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	45.1	90	60-140	
Bromoform	ug/L	50	48.3	97	60-140	
Bromomethane	ug/L	50	43.0	86	60-140	
Carbon tetrachloride	ug/L	50	44.4	89	60-140	
Chlorobenzene	ug/L	50	48.3	97	60-140	
Chloroethane	ug/L	50	43.9	88	60-140	
Chloroform	ug/L	50	46.1	92	60-140	
Chloromethane	ug/L	50	42.5	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.3	95	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	60-140	
Dibromochloromethane	ug/L	50	52.0	104	60-140	
Dibromomethane	ug/L	50	47.5	95	60-140	
Dichlorodifluoromethane	ug/L	50	44.5	89	60-140	
Diisopropyl ether	ug/L	50	49.1	98	60-140	
Ethylbenzene	ug/L	50	47.0	94	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.0	94	60-140	
m&p-Xylene	ug/L	100	92.8	93	60-140	
Methyl-tert-butyl ether	ug/L	50	49.3	99	60-140	
Methylene Chloride	ug/L	50	45.5	91	60-140	
n-Butylbenzene	ug/L	50	52.0	104	60-140	
n-Propylbenzene	ug/L	50	47.6	95	60-140	
Naphthalene	ug/L	50	52.6	105	60-140	
o-Xylene	ug/L	50	47.7	95	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	49.2	98	60-140	
tert-Butylbenzene	ug/L	50	39.2	78	60-140	
Tetrachloroethene	ug/L	50	45.8	92	60-140	
Toluene	ug/L	50	46.5	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	41.5	83	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522436

Parameter	92522266001		MS	MSD	3165933		3165934		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.6	22.2	98	111	60-140	13			
1,1,1-Trichloroethane	ug/L	ND	20	20	20.3	22.3	101	111	60-140	9			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.8	21.1	99	106	60-140	7			
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	21.4	99	107	60-140	8			
1,1-Dichloroethane	ug/L	ND	20	20	19.9	21.2	99	106	60-140	6			
1,1-Dichloroethene	ug/L	ND	20	20	22.4	23.6	112	118	60-140	5			
1,1-Dichloropropene	ug/L	ND	20	20	19.8	22.1	99	111	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.4	20.4	97	102	60-140	5			
1,2,3-Trichloropropane	ug/L	ND	20	20	18.4	20.3	92	101	60-140	9			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.0	21.3	100	106	60-140	6			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.6	21.7	103	108	60-140	5			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.1	22.1	100	111	60-140	10			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.2	22.0	96	110	60-140	14			
1,2-Dichlorobenzene	ug/L	ND	20	20	21.1	22.2	106	111	60-140	5			
1,2-Dichloroethane	ug/L	ND	20	20	18.3	19.5	91	98	60-140	7			
1,2-Dichloropropane	ug/L	ND	20	20	18.9	20.7	94	103	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.8	21.3	104	107	60-140	3			
1,3-Dichlorobenzene	ug/L	ND	20	20	20.4	21.0	102	105	60-140	3			
1,3-Dichloropropane	ug/L	ND	20	20	18.4	21.4	92	107	60-140	15			
1,4-Dichlorobenzene	ug/L	ND	20	20	21.9	22.8	109	114	60-140	4			
2,2-Dichloropropane	ug/L	ND	20	20	19.7	21.3	98	106	60-140	8			
2-Chlorotoluene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5			
Benzene	ug/L	ND	20	20	19.6	21.1	98	105	60-140	7			
Bromobenzene	ug/L	ND	20	20	21.6	22.1	108	111	60-140	3			
Bromochloromethane	ug/L	ND	20	20	20.4	23.2	102	116	60-140	13			
Bromodichloromethane	ug/L	ND	20	20	19.3	20.7	96	103	60-140	7			
Bromoform	ug/L	ND	20	20	19.5	22.0	98	110	60-140	12			
Bromomethane	ug/L	ND	20	20	22.3	23.6	112	118	60-140	5			
Carbon tetrachloride	ug/L	ND	20	20	21.5	23.4	108	117	60-140	8			
Chlorobenzene	ug/L	ND	20	20	20.2	21.5	101	108	60-140	6			
Chloroethane	ug/L	ND	20	20	24.2	25.6	121	128	60-140	6			
Chloroform	ug/L	ND	20	20	19.8	21.2	99	106	60-140	7			
Chloromethane	ug/L	ND	20	20	18.8	20.0	93	100	60-140	6			
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.1	20.9	96	104	60-140	9			
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	21.2	97	106	60-140	9			
Dibromochloromethane	ug/L	ND	20	20	19.5	22.3	98	111	60-140	13			
Dibromomethane	ug/L	ND	20	20	21.9	22.5	109	113	60-140	3			
Dichlorodifluoromethane	ug/L	ND	20	20	25.1	26.1	125	131	60-140	4			
Diisopropyl ether	ug/L	ND	20	20	16.9	18.8	84	94	60-140	11			
Ethylbenzene	ug/L	ND	20	20	19.8	20.5	99	103	60-140	4			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.5	20.4	98	102	60-140	4			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	21.1	102	105	60-140	4			
m&p-Xylene	ug/L	ND	40	40	40.8	42.1	102	105	60-140	3			
Methyl-tert-butyl ether	ug/L	ND	20	20	18.7	21.6	94	108	60-140	14			
Methylene Chloride	ug/L	ND	20	20	18.1	19.7	91	98	60-140	8			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522436

Parameter	92522266001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	20.2	20.4	101	102	60-140	1				
n-Propylbenzene	ug/L	ND	20	20	20.8	21.0	104	105	60-140	1				
Naphthalene	ug/L	ND	20	20	20.1	21.7	101	108	60-140	7				
o-Xylene	ug/L	ND	20	20	20.2	20.8	101	104	60-140	3				
sec-Butylbenzene	ug/L	ND	20	20	20.9	21.7	104	109	60-140	4				
Styrene	ug/L	ND	20	20	20.4	21.6	102	108	60-140	6				
tert-Butylbenzene	ug/L	ND	20	20	16.7	17.4	84	87	60-140	4				
Tetrachloroethene	ug/L	ND	20	20	19.5	20.7	97	103	60-140	6				
Toluene	ug/L	ND	20	20	20.9	21.0	105	105	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.4	21.7	102	109	60-140	6				
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.9	21.2	99	106	60-140	7				
Trichloroethene	ug/L	ND	20	20	20.1	21.5	100	108	60-140	7				
Trichlorofluoromethane	ug/L	ND	20	20	23.2	23.9	116	120	60-140	3				
Vinyl chloride	ug/L	ND	20	20	22.6	23.7	113	119	60-140	5				
1,2-Dichloroethane-d4 (S)	%						99	101	70-130					
4-Bromofluorobenzene (S)	%						101	100	70-130					
Toluene-d8 (S)	%						103	97	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522436

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92522436

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92522436001	13835_AC_RD_20210216	MADEPV	1624518	MADEP VPH	1624518
92522436001	13835_AC_RD_20210216	EPA 3010A	600518	EPA 6010D	600543
92522436001	13835_AC_RD_20210216	SM 6200B	600709		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

## NO#: 92522436

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

LAB USE ON Container P.

Report To: Andrew Street

Site Collection Info/Address: Andrew Street Capiscoes.com  
13835 A Sbury Chapel Rd

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: 2670-21-2478 Incident

State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Collected By (print): Naomi Fetz

Compliance Monitoring? [ ] Yes [ ] No

Sample Disposal: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 5 Day

Analysis: \_\_\_\_\_

Turnaround Date Required: ASAP

Field Filtered (if applicable): [ ] Yes [ ] No

Matrix \* DW

Res CI 8

Customer Sample ID 13835.A.20.2010216

MADEP VPH  
UNGS 62008  
Lead

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Relinquished by/Company: (Signature) Naomi Fetz / Apex

Received by/Company: (Signature) MDG/PCA HCL 27621 13:55

Relinquished by/Company: (Signature) \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_

Analyses	Lab Profile/Line:	Lab Sample Receipt Checklist:
		Custody Seals Present/Intact Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Custody Signatures Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Collector Signature Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Bottles Intact Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Correct Bottles Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Sufficient Volume Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Samples Received on Ice Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		VOA - Headspace Acceptable Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		USDA Regulated Soils Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Samples in Holding Time Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Residual Chlorine Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Cl Strips: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Sample pH Acceptable Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		pH Strips: <u>2.58-9.4W</u> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Sulfide Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		Lead Acetate Strips: _____ Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
		LAB USE ONLY: _____
		Lab Sample # / Comments: <u>92522436</u>

Lab Sample Temperature Info:

Temp Blank Received: Y  N  NA

Therm ID#: IRK21064

Cooler 1 Temp Upon Receipt: 5.0oC

Cooler 1 Therm Corr. Factor: -1.1oC

Cooler 1 Corrected Temp: 4.9oC

Comments:

Trip Blank Received: Y  N  NA

HCL MeOH TSP Other

Non Conformance(s): \_\_\_\_\_

Page: \_\_\_\_\_ of: \_\_\_\_\_

SHORT HOLDS PRESENT (<72 hours): Y  N  N/A

Lab Tracking #: 2561326

Samples received via: FEDEX UPS  Courier Pace Courier

Table #: \_\_\_\_\_

Acctnum: \_\_\_\_\_

Template: \_\_\_\_\_

Prelogin: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

MTJL LAB USE ONLY

Radchem sample(s) screened (<500 cpm): Y  N  NA

Packing Material Used: p. bags

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

Received by/Company: (Signature) \_\_\_\_\_

Customer Remarks / Special Conditions / Possible Hazards:

Date/Time: 2-16-21 1355

Received by/Company: (Signature) MDG/PCA HCL 27621 13:55

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

Received by/Company: (Signature) \_\_\_\_\_

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

Received by/Company: (Signature) \_\_\_\_\_

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

Received by/Company: (Signature) \_\_\_\_\_

February 24, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92522438

Dear Andrew Street:

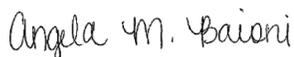
Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522438

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92522438001	DUP-1	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92522438002	FB-1	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92522438003	Trip Blank	SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

Sample: DUP-1	Lab ID: 92522438001	Collected: 02/16/21 00:00	Received: 02/16/21 13:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/24/21 04:36	02/24/21 04:36		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/24/21 04:36	02/24/21 04:36		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/24/21 04:36	02/24/21 04:36	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/24/21 04:36	02/24/21 04:36	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	95.0	%	70.0-130	1	02/24/21 04:36	02/24/21 04:36	615-59-8FID	
2,5-Dibromotoluene (PID)	97.9	%	70.0-130	1	02/24/21 04:36	02/24/21 04:36	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/19/21 02:33	02/19/21 18:39	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/18/21 18:56	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/18/21 18:56	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/18/21 18:56	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/18/21 18:56	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/18/21 18:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/18/21 18:56	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:56	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:56	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:56	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/18/21 18:56	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/18/21 18:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/21 18:56	75-00-3	
Chloroform	0.62	ug/L	0.50	1		02/18/21 18:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/21 18:56	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 18:56	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 18:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/18/21 18:56	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/18/21 18:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/18/21 18:56	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/18/21 18:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/18/21 18:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/18/21 18:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/18/21 18:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:56	594-20-7	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

Sample: DUP-1		Lab ID: 92522438001		Collected: 02/16/21 00:00	Received: 02/16/21 13:55	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:56	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/18/21 18:56	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/18/21 18:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/18/21 18:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/18/21 18:56	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/18/21 18:56	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/18/21 18:56	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/18/21 18:56	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/18/21 18:56	103-65-1	
Styrene	ND	ug/L	0.50	1		02/18/21 18:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 18:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 18:56	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/18/21 18:56	127-18-4	
Toluene	ND	ug/L	0.50	1		02/18/21 18:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 18:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 18:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/18/21 18:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/18/21 18:56	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/18/21 18:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/21 18:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/18/21 18:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 18:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 18:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/21 18:56	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/18/21 18:56	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/18/21 18:56	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		02/18/21 18:56	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		02/18/21 18:56	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		02/18/21 18:56	2037-26-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522438

Sample: FB-1	Lab ID: 92522438002	Collected: 02/16/21 00:00	Received: 02/16/21 13:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/23/21 21:57	02/23/21 21:57		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/23/21 21:57	02/23/21 21:57		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/23/21 21:57	02/23/21 21:57	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/23/21 21:57	02/23/21 21:57	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	85.3	%	70.0-130	1	02/23/21 21:57	02/23/21 21:57	615-59-8FID	
2,5-Dibromotoluene (PID)	84.1	%	70.0-130	1	02/23/21 21:57	02/23/21 21:57	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/19/21 02:33	02/19/21 18:49	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/18/21 13:00	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/18/21 13:00	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/18/21 13:00	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/18/21 13:00	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/18/21 13:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/18/21 13:00	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/18/21 13:00	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/18/21 13:00	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/18/21 13:00	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/18/21 13:00	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/18/21 13:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/21 13:00	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/18/21 13:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/21 13:00	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 13:00	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 13:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/18/21 13:00	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/18/21 13:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/18/21 13:00	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/18/21 13:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 13:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 13:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 13:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/18/21 13:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/18/21 13:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/18/21 13:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/18/21 13:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 13:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 13:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 13:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/18/21 13:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 13:00	594-20-7	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

Sample: <b>FB-1</b>	Lab ID: <b>92522438002</b>	Collected: 02/16/21 00:00	Received: 02/16/21 13:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/18/21 13:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 13:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 13:00	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/18/21 13:00	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/18/21 13:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/18/21 13:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/18/21 13:00	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/18/21 13:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/18/21 13:00	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/18/21 13:00	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/18/21 13:00	103-65-1	
Styrene	ND	ug/L	0.50	1		02/18/21 13:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 13:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 13:00	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/18/21 13:00	127-18-4	
Toluene	ND	ug/L	0.50	1		02/18/21 13:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 13:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 13:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/18/21 13:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/18/21 13:00	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/18/21 13:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/21 13:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/18/21 13:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 13:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 13:00	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/21 13:00	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/18/21 13:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/18/21 13:00	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/18/21 13:00	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		02/18/21 13:00	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		02/18/21 13:00	2037-26-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

Sample: Trip Blank		Lab ID: 92522438003	Collected: 02/16/21 00:00	Received: 02/16/21 13:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		02/18/21 13:17	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/18/21 13:17	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/18/21 13:17	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/18/21 13:17	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/18/21 13:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/18/21 13:17	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/18/21 13:17	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/18/21 13:17	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/18/21 13:17	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/18/21 13:17	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/18/21 13:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/21 13:17	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/18/21 13:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/21 13:17	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 13:17	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 13:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/18/21 13:17	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/18/21 13:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/18/21 13:17	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/18/21 13:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 13:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 13:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 13:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/18/21 13:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/18/21 13:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/18/21 13:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/18/21 13:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 13:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 13:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 13:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/18/21 13:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 13:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		02/18/21 13:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 13:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 13:17	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/18/21 13:17	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/18/21 13:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/18/21 13:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/18/21 13:17	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/18/21 13:17	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/18/21 13:17	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/18/21 13:17	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/18/21 13:17	103-65-1	
Styrene	ND	ug/L	0.50	1		02/18/21 13:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 13:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 13:17	79-34-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

<b>Sample: Trip Blank</b>		<b>Lab ID: 92522438003</b>	Collected: 02/16/21 00:00	Received: 02/16/21 13:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		02/18/21 13:17	127-18-4	
Toluene	ND	ug/L	0.50	1		02/18/21 13:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 13:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 13:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/18/21 13:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/18/21 13:17	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/18/21 13:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/21 13:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/18/21 13:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 13:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 13:17	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/21 13:17	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/18/21 13:17	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/18/21 13:17	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/18/21 13:17	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		02/18/21 13:17	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		02/18/21 13:17	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

QC Batch: 1624518	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92522438001, 92522438002

METHOD BLANK: R3624660-3 Matrix: Water

Associated Lab Samples: 92522438001, 92522438002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/23/21 20:45	
Aliphatic (C09-C12)	ug/L	ND	100	02/23/21 20:45	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/23/21 20:45	
Total VPH	ug/L	ND	100	02/23/21 20:45	
2,5-Dibromotoluene (FID)	%	83.6	70.0-130	02/23/21 20:45	
2,5-Dibromotoluene (PID)	%	83.6	70.0-130	02/23/21 20:45	

LABORATORY CONTROL SAMPLE & LCSD: R3624660-1 R3624660-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1010	996	84.2	83.0	70.0-130	1.40	25	
Aliphatic (C09-C12)	ug/L	1400	1380	1390	98.6	99.3	70.0-130	0.722	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	197	195	98.5	97.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2590	2580	92.5	92.1	70.0-130	0.387	25	
2,5-Dibromotoluene (FID)	%				81.5	93.5	70.0-130			
2,5-Dibromotoluene (PID)	%				81.3	93.3	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

QC Batch: 601150

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92522438001, 92522438002

METHOD BLANK: 3168304

Matrix: Water

Associated Lab Samples: 92522438001, 92522438002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/19/21 18:32	

LABORATORY CONTROL SAMPLE: 3168305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3168306 3168307

Parameter	Units	92522780001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Lead	ug/L	ND	500	478	484	96	97	75-125	1				

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522438

QC Batch: 600709      Analysis Method: SM 6200B  
QC Batch Method: SM 6200B      Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92522438001, 92522438002, 92522438003

METHOD BLANK: 3165931      Matrix: Water  
Associated Lab Samples: 92522438001, 92522438002, 92522438003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/18/21 11:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/18/21 11:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/18/21 11:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
1,3-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
2,2-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
2-Chlorotoluene	ug/L	ND	0.50	02/18/21 11:49	
4-Chlorotoluene	ug/L	ND	0.50	02/18/21 11:49	
Benzene	ug/L	ND	0.50	02/18/21 11:49	
Bromobenzene	ug/L	ND	0.50	02/18/21 11:49	
Bromochloromethane	ug/L	ND	0.50	02/18/21 11:49	
Bromodichloromethane	ug/L	ND	0.50	02/18/21 11:49	
Bromoform	ug/L	ND	0.50	02/18/21 11:49	
Bromomethane	ug/L	ND	5.0	02/18/21 11:49	
Carbon tetrachloride	ug/L	ND	0.50	02/18/21 11:49	
Chlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
Chloroethane	ug/L	ND	1.0	02/18/21 11:49	
Chloroform	ug/L	ND	0.50	02/18/21 11:49	
Chloromethane	ug/L	ND	1.0	02/18/21 11:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
Dibromochloromethane	ug/L	ND	0.50	02/18/21 11:49	
Dibromomethane	ug/L	ND	0.50	02/18/21 11:49	
Dichlorodifluoromethane	ug/L	ND	0.50	02/18/21 11:49	
Diisopropyl ether	ug/L	ND	0.50	02/18/21 11:49	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

METHOD BLANK: 3165931

Matrix: Water

Associated Lab Samples: 92522438001, 92522438002, 92522438003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/18/21 11:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/18/21 11:49	
m&p-Xylene	ug/L	ND	1.0	02/18/21 11:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/18/21 11:49	
Methylene Chloride	ug/L	ND	2.0	02/18/21 11:49	
n-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
n-Propylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Naphthalene	ug/L	ND	2.0	02/18/21 11:49	
o-Xylene	ug/L	ND	0.50	02/18/21 11:49	
sec-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Styrene	ug/L	ND	0.50	02/18/21 11:49	
tert-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Tetrachloroethene	ug/L	ND	0.50	02/18/21 11:49	
Toluene	ug/L	ND	0.50	02/18/21 11:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
Trichloroethene	ug/L	ND	0.50	02/18/21 11:49	
Trichlorofluoromethane	ug/L	ND	1.0	02/18/21 11:49	
Vinyl chloride	ug/L	ND	1.0	02/18/21 11:49	
1,2-Dichloroethane-d4 (S)	%	90	70-130	02/18/21 11:49	
4-Bromofluorobenzene (S)	%	100	70-130	02/18/21 11:49	
Toluene-d8 (S)	%	103	70-130	02/18/21 11:49	

LABORATORY CONTROL SAMPLE: 3165932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	60-140	
1,1,1-Trichloroethane	ug/L	50	45.8	92	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	60-140	
1,1,2-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1-Dichloroethane	ug/L	50	47.0	94	60-140	
1,1-Dichloroethene	ug/L	50	49.4	99	60-140	
1,1-Dichloropropene	ug/L	50	50.2	100	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.6	101	60-140	
1,2,3-Trichloropropane	ug/L	50	46.2	92	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.8	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.2	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.9	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	60-140	
1,2-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,2-Dichloroethane	ug/L	50	45.4	91	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	46.8	94	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

LABORATORY CONTROL SAMPLE: 3165932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	48.4	97	60-140	
1,4-Dichlorobenzene	ug/L	50	48.5	97	60-140	
2,2-Dichloropropane	ug/L	50	47.2	94	60-140	
2-Chlorotoluene	ug/L	50	49.7	99	60-140	
4-Chlorotoluene	ug/L	50	45.9	92	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	45.9	92	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	45.1	90	60-140	
Bromoform	ug/L	50	48.3	97	60-140	
Bromomethane	ug/L	50	43.0	86	60-140	
Carbon tetrachloride	ug/L	50	44.4	89	60-140	
Chlorobenzene	ug/L	50	48.3	97	60-140	
Chloroethane	ug/L	50	43.9	88	60-140	
Chloroform	ug/L	50	46.1	92	60-140	
Chloromethane	ug/L	50	42.5	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.3	95	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	60-140	
Dibromochloromethane	ug/L	50	52.0	104	60-140	
Dibromomethane	ug/L	50	47.5	95	60-140	
Dichlorodifluoromethane	ug/L	50	44.5	89	60-140	
Diisopropyl ether	ug/L	50	49.1	98	60-140	
Ethylbenzene	ug/L	50	47.0	94	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.0	94	60-140	
m&p-Xylene	ug/L	100	92.8	93	60-140	
Methyl-tert-butyl ether	ug/L	50	49.3	99	60-140	
Methylene Chloride	ug/L	50	45.5	91	60-140	
n-Butylbenzene	ug/L	50	52.0	104	60-140	
n-Propylbenzene	ug/L	50	47.6	95	60-140	
Naphthalene	ug/L	50	52.6	105	60-140	
o-Xylene	ug/L	50	47.7	95	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	49.2	98	60-140	
tert-Butylbenzene	ug/L	50	39.2	78	60-140	
Tetrachloroethene	ug/L	50	45.8	92	60-140	
Toluene	ug/L	50	46.5	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	41.5	83	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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**QUALITY CONTROL DATA**

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

Parameter	92522266001		MS	MSD	3165933		3165934		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.6	22.2	98	111	60-140	13			
1,1,1-Trichloroethane	ug/L	ND	20	20	20.3	22.3	101	111	60-140	9			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.8	21.1	99	106	60-140	7			
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	21.4	99	107	60-140	8			
1,1-Dichloroethane	ug/L	ND	20	20	19.9	21.2	99	106	60-140	6			
1,1-Dichloroethene	ug/L	ND	20	20	22.4	23.6	112	118	60-140	5			
1,1-Dichloropropene	ug/L	ND	20	20	19.8	22.1	99	111	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.4	20.4	97	102	60-140	5			
1,2,3-Trichloropropane	ug/L	ND	20	20	18.4	20.3	92	101	60-140	9			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.0	21.3	100	106	60-140	6			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.6	21.7	103	108	60-140	5			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.1	22.1	100	111	60-140	10			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.2	22.0	96	110	60-140	14			
1,2-Dichlorobenzene	ug/L	ND	20	20	21.1	22.2	106	111	60-140	5			
1,2-Dichloroethane	ug/L	ND	20	20	18.3	19.5	91	98	60-140	7			
1,2-Dichloropropane	ug/L	ND	20	20	18.9	20.7	94	103	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.8	21.3	104	107	60-140	3			
1,3-Dichlorobenzene	ug/L	ND	20	20	20.4	21.0	102	105	60-140	3			
1,3-Dichloropropane	ug/L	ND	20	20	18.4	21.4	92	107	60-140	15			
1,4-Dichlorobenzene	ug/L	ND	20	20	21.9	22.8	109	114	60-140	4			
2,2-Dichloropropane	ug/L	ND	20	20	19.7	21.3	98	106	60-140	8			
2-Chlorotoluene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5			
Benzene	ug/L	ND	20	20	19.6	21.1	98	105	60-140	7			
Bromobenzene	ug/L	ND	20	20	21.6	22.1	108	111	60-140	3			
Bromochloromethane	ug/L	ND	20	20	20.4	23.2	102	116	60-140	13			
Bromodichloromethane	ug/L	ND	20	20	19.3	20.7	96	103	60-140	7			
Bromoform	ug/L	ND	20	20	19.5	22.0	98	110	60-140	12			
Bromomethane	ug/L	ND	20	20	22.3	23.6	112	118	60-140	5			
Carbon tetrachloride	ug/L	ND	20	20	21.5	23.4	108	117	60-140	8			
Chlorobenzene	ug/L	ND	20	20	20.2	21.5	101	108	60-140	6			
Chloroethane	ug/L	ND	20	20	24.2	25.6	121	128	60-140	6			
Chloroform	ug/L	ND	20	20	19.8	21.2	99	106	60-140	7			
Chloromethane	ug/L	ND	20	20	18.8	20.0	93	100	60-140	6			
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.1	20.9	96	104	60-140	9			
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	21.2	97	106	60-140	9			
Dibromochloromethane	ug/L	ND	20	20	19.5	22.3	98	111	60-140	13			
Dibromomethane	ug/L	ND	20	20	21.9	22.5	109	113	60-140	3			
Dichlorodifluoromethane	ug/L	ND	20	20	25.1	26.1	125	131	60-140	4			
Diisopropyl ether	ug/L	ND	20	20	16.9	18.8	84	94	60-140	11			
Ethylbenzene	ug/L	ND	20	20	19.8	20.5	99	103	60-140	4			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.5	20.4	98	102	60-140	4			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	21.1	102	105	60-140	4			
m&p-Xylene	ug/L	ND	40	40	40.8	42.1	102	105	60-140	3			
Methyl-tert-butyl ether	ug/L	ND	20	20	18.7	21.6	94	108	60-140	14			
Methylene Chloride	ug/L	ND	20	20	18.1	19.7	91	98	60-140	8			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

Parameter	92522266001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	20.2	20.4	101	102	60-140	1				
n-Propylbenzene	ug/L	ND	20	20	20.8	21.0	104	105	60-140	1				
Naphthalene	ug/L	ND	20	20	20.1	21.7	101	108	60-140	7				
o-Xylene	ug/L	ND	20	20	20.2	20.8	101	104	60-140	3				
sec-Butylbenzene	ug/L	ND	20	20	20.9	21.7	104	109	60-140	4				
Styrene	ug/L	ND	20	20	20.4	21.6	102	108	60-140	6				
tert-Butylbenzene	ug/L	ND	20	20	16.7	17.4	84	87	60-140	4				
Tetrachloroethene	ug/L	ND	20	20	19.5	20.7	97	103	60-140	6				
Toluene	ug/L	ND	20	20	20.9	21.0	105	105	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.4	21.7	102	109	60-140	6				
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.9	21.2	99	106	60-140	7				
Trichloroethene	ug/L	ND	20	20	20.1	21.5	100	108	60-140	7				
Trichlorofluoromethane	ug/L	ND	20	20	23.2	23.9	116	120	60-140	3				
Vinyl chloride	ug/L	ND	20	20	22.6	23.7	113	119	60-140	5				
1,2-Dichloroethane-d4 (S)	%						99	101	70-130					
4-Bromofluorobenzene (S)	%						101	100	70-130					
Toluene-d8 (S)	%						103	97	70-130					

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: 2020-L1-2448 Incident

Pace Project No.: 92522438

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92522438

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92522438001	DUP-1	MADEPV	1624518	MADEP VPH	1624518
92522438002	FB-1	MADEPV	1624518	MADEP VPH	1624518
92522438001	DUP-1	EPA 3010A	601150	EPA 6010D	601184
92522438002	FB-1	EPA 3010A	601150	EPA 6010D	601184
92522438001	DUP-1	SM 6200B	600709		
92522438002	FB-1	SM 6200B	600709		
92522438003	Trip Blank	SM 6200B	600709		

### REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
 Billing Information:

Company: Apex Companies  
 Address: Andrew Street  
 Report To: Andrew Street  
 Copy To: Andrew Street

Customer Project Name/Number: 2020-11-2448 Incident  
 Phone: NC 1 Huntersville  
 Email: NC 1 Huntersville  
 Site/Facility ID #: ASAP  
 Purchased Order #: ASAP  
 Quote #: ASAP  
 Turnaround Date Required: ASAP  
 Rush: [ ] Same Day [ ] Next Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold  
 Collected By (signature): Naomi Fetz  
 Collected By (signature): Naomi Fetz

State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET  
 Compliance Monitoring? [ ] Yes [ ] No  
 DW PWS ID #: ASAP DW Location Code: ASAP  
 Immediately Packed on Ice: [ ] Yes [ ] No  
 Field Filtered (if applicable): [ ] Yes [ ] No  
 Analysis: ASAP

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
DUP-1	DW	G	2-16-21	-	8	8
FB-1	OT	G	-	-	8	8
Trip Black	OT	-	-	-	2	2

Customer Remarks / Special Conditions / Possible Hazards: b. bags  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: b. bags  
 Radchem sample(s) screened (<500 cpm): Y N NA  
 Received by/Company: (Signature) MDG Re HVZ 21621 1355 Date/Time: 2-16-21 1355  
 Relinquished by/Company: (Signature) Naomi Fetz / Apex Date/Time: 2-16-21 1355  
 Relinquished by/Company: (Signature) MDG Re HVZ 21621 1355 Date/Time: 2-16-21 1355  
 Relinquished by/Company: (Signature) MDG Re HVZ 21621 1355 Date/Time: 2-16-21 1355

LAB USE  
 W0#: 92522438

Contain:  
 \*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line:  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA Regulated Soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: 225819AV  
 Sulfide Present Y N NA  
 Lead Acetate Strips: Y N NA  
 Lab USE ONLY:  
 Lab Sample # / Comments: 92522438  
 Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: IR42704  
 Cooler 1 Temp Upon Receipt: 5.0 oC  
 Cooler 1 Therm Corr. Factor: -1 oC  
 Cooler 1 Corrected Temp: 4.9 oC  
 Comments:  
 Trip Blank Received: Y N NA  
 (HCL) MeOH TSP Other  
 Non Conformance(s): YES / NO Page: 19 of: 19

March 03, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523572

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

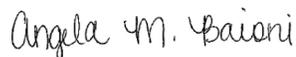
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised laboratory report is being submitted on 3/3/21 to revise the sample ID. This was entered incorrectly at sample log in.

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC

Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523572

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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 Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

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

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 ANALYTE COUNT

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523572

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523572001	13835_AC_RD_20210223	MADEP VPH	JHH	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523572

**Sample:** 13835\_AC\_RD\_20210223    **Lab ID:** 92523572001    Collected: 02/23/21 10:45    Received: 02/23/21 13:35    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/28/21 04:20	02/28/21 04:20		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/28/21 04:20	02/28/21 04:20		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/28/21 04:20	02/28/21 04:20	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/28/21 04:20	02/28/21 04:20	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	108	%	70.0-130	1	02/28/21 04:20	02/28/21 04:20	615-59-8FID	
2,5-Dibromotoluene (PID)	108	%	70.0-130	1	02/28/21 04:20	02/28/21 04:20	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/24/21 02:09	02/28/21 22:12	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/24/21 03:42	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/24/21 03:42	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/24/21 03:42	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/24/21 03:42	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/24/21 03:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/24/21 03:42	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/24/21 03:42	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/24/21 03:42	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/24/21 03:42	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/24/21 03:42	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/24/21 03:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/21 03:42	75-00-3	
Chloroform	<b>0.57</b>	ug/L	0.50	1		02/24/21 03:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/21 03:42	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 03:42	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 03:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/24/21 03:42	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/24/21 03:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/24/21 03:42	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/24/21 03:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 03:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 03:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 03:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/24/21 03:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/24/21 03:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/24/21 03:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/24/21 03:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 03:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 03:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 03:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/24/21 03:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 03:42	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523572

**Sample:** 13835\_AC\_RD\_20210223    **Lab ID:** 92523572001    Collected: 02/23/21 10:45    Received: 02/23/21 13:35    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/24/21 03:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 03:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 03:42	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/24/21 03:42	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/24/21 03:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/24/21 03:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/24/21 03:42	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/24/21 03:42	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/24/21 03:42	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/24/21 03:42	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/24/21 03:42	103-65-1	
Styrene	ND	ug/L	0.50	1		02/24/21 03:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 03:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 03:42	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/24/21 03:42	127-18-4	
Toluene	ND	ug/L	0.50	1		02/24/21 03:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 03:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 03:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/24/21 03:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/24/21 03:42	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/24/21 03:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/21 03:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/24/21 03:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 03:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 03:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/24/21 03:42	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/24/21 03:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/24/21 03:42	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		02/24/21 03:42	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		02/24/21 03:42	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		02/24/21 03:42	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523572

QC Batch: 1626945      Analysis Method: MADEP VPH  
QC Batch Method: MADEPV      Analysis Description: MADEPV  
Laboratory: Pace National - Mt. Juliet  
Associated Lab Samples: 92523572001

METHOD BLANK: R3626445-3      Matrix: Water  
Associated Lab Samples: 92523572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/27/21 12:57	
Aliphatic (C09-C12)	ug/L	ND	100	02/27/21 12:57	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/27/21 12:57	
Total VPH	ug/L	ND	100	02/27/21 12:57	
2,5-Dibromotoluene (FID)	%	95.2	70.0-130	02/27/21 12:57	
2,5-Dibromotoluene (PID)	%	96.8	70.0-130	02/27/21 12:57	

Parameter	Units	R3626445-1		R3626445-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1290	1290	107	107	70.0-130	0.00	25
Aliphatic (C09-C12)	ug/L	1400	1670	1650	119	118	70.0-130	1.20	25
Aromatic (C09-C10),Unadjusted	ug/L	200	246	248	123	124	70.0-130	0.810	25
Total VPH	ug/L	2800	3210	3190	115	114	70.0-130	0.625	25
2,5-Dibromotoluene (FID)	%				102	105	70.0-130		
2,5-Dibromotoluene (PID)	%				104	107	70.0-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523572

QC Batch: 602104	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523572001

METHOD BLANK: 3172642 Matrix: Water  
Associated Lab Samples: 92523572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/28/21 21:13	

LABORATORY CONTROL SAMPLE: 3172643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172644 3172645

Parameter	Units	92523735020		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1		

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523572

QC Batch: 602003 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523572001

METHOD BLANK: 3172101 Matrix: Water  
Associated Lab Samples: 92523572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
2,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
2-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
4-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
Benzene	ug/L	ND	0.50	02/24/21 00:42	
Bromobenzene	ug/L	ND	0.50	02/24/21 00:42	
Bromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromodichloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromoform	ug/L	ND	0.50	02/24/21 00:42	
Bromomethane	ug/L	ND	5.0	02/24/21 00:42	
Carbon tetrachloride	ug/L	ND	0.50	02/24/21 00:42	
Chlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
Chloroethane	ug/L	ND	1.0	02/24/21 00:42	
Chloroform	ug/L	ND	0.50	02/24/21 00:42	
Chloromethane	ug/L	ND	1.0	02/24/21 00:42	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Dibromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Dibromomethane	ug/L	ND	0.50	02/24/21 00:42	
Dichlorodifluoromethane	ug/L	ND	0.50	02/24/21 00:42	
Diisopropyl ether	ug/L	ND	0.50	02/24/21 00:42	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523572

METHOD BLANK: 3172101 Matrix: Water  
Associated Lab Samples: 92523572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/24/21 00:42	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/24/21 00:42	
m&p-Xylene	ug/L	ND	1.0	02/24/21 00:42	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/24/21 00:42	
Methylene Chloride	ug/L	ND	2.0	02/24/21 00:42	
n-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
n-Propylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Naphthalene	ug/L	ND	2.0	02/24/21 00:42	
o-Xylene	ug/L	ND	0.50	02/24/21 00:42	
sec-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Styrene	ug/L	ND	0.50	02/24/21 00:42	
tert-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Tetrachloroethene	ug/L	ND	0.50	02/24/21 00:42	
Toluene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Trichloroethene	ug/L	ND	0.50	02/24/21 00:42	
Trichlorofluoromethane	ug/L	ND	1.0	02/24/21 00:42	
Vinyl chloride	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dichloroethane-d4 (S)	%	99	70-130	02/24/21 00:42	
4-Bromofluorobenzene (S)	%	97	70-130	02/24/21 00:42	
Toluene-d8 (S)	%	101	70-130	02/24/21 00:42	

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	60-140	
1,1,2-Trichloroethane	ug/L	50	54.9	110	60-140	
1,1-Dichloroethane	ug/L	50	52.4	105	60-140	
1,1-Dichloroethene	ug/L	50	54.2	108	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.8	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.8	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	60-140	
1,2-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	56.7	113	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	60-140	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523572

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,3-Dichloropropane	ug/L	50	53.3	107	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	52.2	104	60-140	
2-Chlorotoluene	ug/L	50	51.1	102	60-140	
4-Chlorotoluene	ug/L	50	50.2	100	60-140	
Benzene	ug/L	50	53.9	108	60-140	
Bromobenzene	ug/L	50	51.1	102	60-140	
Bromochloromethane	ug/L	50	52.6	105	60-140	
Bromodichloromethane	ug/L	50	54.4	109	60-140	
Bromoform	ug/L	50	50.3	101	60-140	
Bromomethane	ug/L	50	52.1	104	60-140	
Carbon tetrachloride	ug/L	50	57.8	116	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	47.8	96	60-140	
Chloroform	ug/L	50	50.6	101	60-140	
Chloromethane	ug/L	50	43.1	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.3	115	60-140	
Dibromochloromethane	ug/L	50	56.5	113	60-140	
Dibromomethane	ug/L	50	55.8	112	60-140	
Dichlorodifluoromethane	ug/L	50	51.2	102	60-140	
Diisopropyl ether	ug/L	50	49.8	100	60-140	
Ethylbenzene	ug/L	50	52.0	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.5	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	48.6	97	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	49.7	99	60-140	
Naphthalene	ug/L	50	53.0	106	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	50.0	100	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	51.9	104	60-140	
Toluene	ug/L	50	53.3	107	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.3	117	60-140	
Trichloroethene	ug/L	50	55.5	111	60-140	
Trichlorofluoromethane	ug/L	50	47.6	95	60-140	
Vinyl chloride	ug/L	50	47.2	94	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			103	70-130	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523572

Parameter	92523572010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.4	104	107	60-140	2				
1,1,1-Trichloroethane	ug/L	ND	20	20	20.6	20.9	103	104	60-140	1				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.3	19.5	97	98	60-140	1				
1,1,2-Trichloroethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0				
1,1-Dichloroethane	ug/L	ND	20	20	20.4	20.0	102	100	60-140	2				
1,1-Dichloroethene	ug/L	ND	20	20	21.9	21.1	110	106	60-140	4				
1,1-Dichloropropene	ug/L	ND	20	20	21.1	20.6	105	103	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.8	19.1	109	96	60-140	13				
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	19.4	96	97	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.1	19.7	106	98	60-140	7				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.7	19.0	99	95	60-140	4				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.9	21.3	115	106	60-140	7				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.2	20.6	101	103	60-140	2				
1,2-Dichlorobenzene	ug/L	ND	20	20	20.2	19.0	101	95	60-140	6				
1,2-Dichloroethane	ug/L	ND	20	20	19.4	19.5	97	98	60-140	1				
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.5	108	108	60-140	0				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.0	19.3	100	96	60-140	4				
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.5	101	97	60-140	4				
1,3-Dichloropropane	ug/L	ND	20	20	19.9	20.0	100	100	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	18.6	95	93	60-140	2				
2,2-Dichloropropane	ug/L	ND	20	20	22.3	21.3	111	107	60-140	4				
2-Chlorotoluene	ug/L	ND	20	20	20.0	19.7	100	98	60-140	2				
4-Chlorotoluene	ug/L	ND	20	20	19.5	19.3	98	97	60-140	1				
Benzene	ug/L	ND	20	20	20.6	20.1	103	101	60-140	2				
Bromobenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	7				
Bromochloromethane	ug/L	ND	20	20	20.3	19.8	102	99	60-140	2				
Bromodichloromethane	ug/L	ND	20	20	19.7	20.0	98	100	60-140	2				
Bromoform	ug/L	ND	20	20	17.8	18.0	89	90	60-140	2				
Bromomethane	ug/L	ND	20	20	20.8	21.2	104	106	60-140	2				
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.0	113	110	60-140	3				
Chlorobenzene	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1				
Chloroethane	ug/L	ND	20	20	18.3	17.7	91	89	60-140	3				
Chloroform	ug/L	ND	20	20	19.9	19.5	100	98	60-140	2				
Chloromethane	ug/L	ND	20	20	15.3	15.3	76	76	60-140	0				
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	19.2	102	96	60-140	6				
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2				
Dibromochloromethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2				
Dibromomethane	ug/L	ND	20	20	20.8	20.7	104	104	60-140	0				
Dichlorodifluoromethane	ug/L	ND	20	20	12.8	12.8	64	64	60-140	0				
Diisopropyl ether	ug/L	ND	20	20	19.5	19.3	98	96	60-140	1				
Ethylbenzene	ug/L	ND	20	20	20.0	19.8	100	99	60-140	1				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.5	22.9	123	115	60-140	7				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	20.0	101	100	60-140	1				
m&p-Xylene	ug/L	ND	40	40	41.0	40.9	102	102	60-140	0				
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	19.8	100	99	60-140	1				
Methylene Chloride	ug/L	ND	20	20	18.9	18.6	94	93	60-140	2				

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523572

Parameter	92523527010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.0	19.6	105	98	60-140	7				
n-Propylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Naphthalene	ug/L	ND	20	20	21.2	19.1	106	95	60-140	11				
o-Xylene	ug/L	ND	20	20	19.7	19.6	99	98	60-140	1				
sec-Butylbenzene	ug/L	ND	20	20	20.8	19.9	104	99	60-140	5				
Styrene	ug/L	ND	20	20	19.8	20.1	99	101	60-140	2				
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.5	90	87	60-140	3				
Tetrachloroethene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2				
Toluene	ug/L	ND	20	20	20.7	20.5	104	102	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.0	21.2	105	106	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.8	20.8	109	104	60-140	4				
Trichloroethene	ug/L	ND	20	20	21.3	20.9	107	104	60-140	2				
Trichlorofluoromethane	ug/L	ND	20	20	20.0	20.5	100	102	60-140	3				
Vinyl chloride	ug/L	ND	20	20	16.8	16.7	84	84	60-140	0				
1,2-Dichloroethane-d4 (S)	%						99	97	70-130					
4-Bromofluorobenzene (S)	%						98	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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## QUALIFIERS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523572

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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.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523572

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523572001	13835_AC_RD_20210223	MADEPV	1626945	MADEP VPH	1626945
92523572001	13835_AC_RD_20210223	EPA 3010A	602104	EPA 6010D	602118
92523572001	13835_AC_RD_20210223	SM 6200B	602003		

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Address: Andrew Street

Report To: Andrew Street

Copy To: 13355 Aspury Chapel Rd

Customer Project Name/Number: 2020-11-2448 Incident

Phone: Site/Facility ID #: NC Huntersville

Email: Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): DW PWS ID #: ASAP

Collected By (signature): Naomi Fretz

Turnaround Date Required: Immediately Packed on Ice:

Rush: [ ] Yes [ ] No

Sample Disposal: Field Filtered (if applicable):

[ ] Dispose as appropriate [ ] Return

[ ] Archive: [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day

[ ] Hold: (Expedite Charges Apply)

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Type of Ice Used:	
									Wet	Blue Dry None
13835-AC-ED-1081023	DW	6	2-23-21	10:15				8		

Customer Remarks / Special Conditions / Possible Hazards:

Packing Material Used: Wet

Radchem sample(s) screened (<500 cpm): Y N (NA)

Relinquished by/Company: (Signature) Naomi Fretz / Apex  
 Date/Time: 2-23-21 13:35  
 Relinquished by/Company: (Signature)  
 Date/Time:  
 Relinquished by/Company: (Signature)  
 Date/Time:

Received by/Company: (Signature) MDC Be TML-2-23-21 13:35  
 Date/Time:  
 Received by/Company: (Signature)  
 Date/Time:  
 Received by/Company: (Signature)  
 Date/Time:

LAB USE ONLY - Affix Workorder #  
**WO# : 92523572**  
**ALL SHADED**  
 Container Preservative Type \*

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Y	N	NA
Custody Seals Present/Intact			
Custody Signatures Present			
Collector Signatures Present			
Bottles Intact			
Correct Bottles			
Sufficient Volume			
Samples Received on Ice			
VQA - Headspace Acceptable			
USDA Regulated Soils			
Samples in Holding Time			
Residual Chlorine Present			
Cl Strips:			
Sample pH Acceptable			
pH Strips: 2.58 (TAU)			
Sulfide Present			
Lead Acetate Strips:			

Lab Profile/Line: Lab Sample Receipt Checklist:  
 Lab USE ONLY:  
 Lab Sample # / Comments: 92523572

Lab Sample Temperature Info:  
 Temp Blank Received: Y (N) NA  
 Therm ID#: 18921064  
 Cooler 1 Temp Upon Receipt: 4.5 oC  
 Cooler 1 Therm Corr. Factor: 10 oC  
 Cooler 1 Corrected Temp: 4.5 oC  
 Comments:  
 Trip Blank Received: Y (N) NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES / (NO) Page: of:

March 15, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525131

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

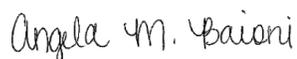
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised laboratory report is being submitted on 3/15/21 due to a sample ID entry error at log in.

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS

Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525131

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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 Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

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

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 ANALYTE COUNT

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525131

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525131001	13835_AC_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525131

**Sample: 13835\_AC\_RD\_20210302**    **Lab ID: 92525131001**    Collected: 03/02/21 10:05    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 08:24	03/05/21 08:24		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 08:24	03/05/21 08:24		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 08:24	03/05/21 08:24	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 08:24	03/05/21 08:24	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	88.6	%	70.0-130	1	03/05/21 08:24	03/05/21 08:24	615-59-8FID	
2,5-Dibromotoluene (PID)	94.4	%	70.0-130	1	03/05/21 08:24	03/05/21 08:24	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 14:20	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 17:45	71-43-2	R1
Bromobenzene	ND	ug/L	0.50	1		03/03/21 17:45	108-86-1	R1
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 17:45	74-97-5	R1
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 17:45	75-27-4	R1
Bromoform	ND	ug/L	0.50	1		03/03/21 17:45	75-25-2	R1
Bromomethane	ND	ug/L	5.0	1		03/03/21 17:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 17:45	104-51-8	R1
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 17:45	135-98-8	R1
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 17:45	98-06-6	R1
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 17:45	56-23-5	R1
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 17:45	108-90-7	R1
Chloroethane	ND	ug/L	1.0	1		03/03/21 17:45	75-00-3	R1
Chloroform	<b>0.50</b>	ug/L	0.50	1		03/03/21 17:45	67-66-3	R1
Chloromethane	ND	ug/L	1.0	1		03/03/21 17:45	74-87-3	R1
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 17:45	95-49-8	R1
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 17:45	106-43-4	R1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 17:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 17:45	124-48-1	R1
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 17:45	106-93-4	R1
Dibromomethane	ND	ug/L	0.50	1		03/03/21 17:45	74-95-3	R1
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 17:45	95-50-1	R1
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 17:45	541-73-1	R1
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 17:45	106-46-7	R1
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 17:45	75-71-8	R1
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 17:45	75-34-3	R1
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 17:45	107-06-2	R1
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 17:45	75-35-4	R1
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 17:45	156-59-2	R1
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 17:45	156-60-5	R1
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 17:45	78-87-5	R1
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 17:45	142-28-9	R1
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 17:45	594-20-7	R1

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525131

Sample: 13835_AC_RD_20210302	Lab ID: 92525131001	Collected: 03/02/21 10:05	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 17:45	563-58-6	R1
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 17:45	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 17:45	10061-02-6	R1
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 17:45	108-20-3	R1
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 17:45	100-41-4	R1
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 17:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 17:45	98-82-8	R1
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 17:45	75-09-2	R1
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 17:45	1634-04-4	R1
Naphthalene	ND	ug/L	2.0	1		03/03/21 17:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 17:45	103-65-1	R1
Styrene	ND	ug/L	0.50	1		03/03/21 17:45	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 17:45	630-20-6	R1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 17:45	79-34-5	R1
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 17:45	127-18-4	R1
Toluene	ND	ug/L	0.50	1		03/03/21 17:45	108-88-3	R1
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 17:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 17:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 17:45	71-55-6	R1
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 17:45	79-00-5	R1
Trichloroethene	ND	ug/L	0.50	1		03/03/21 17:45	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 17:45	75-69-4	R1
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 17:45	96-18-4	R1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 17:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 17:45	108-67-8	R1
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 17:45	75-01-4	R1
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 17:45	179601-23-1	R1
o-Xylene	ND	ug/L	0.50	1		03/03/21 17:45	95-47-6	R1
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/03/21 17:45	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		03/03/21 17:45	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		03/03/21 17:45	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525131

QC Batch: 1629754	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525131001

METHOD BLANK: R3628624-2 Matrix: Water  
Associated Lab Samples: 92525131001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

Parameter	Units	R3628624-1		R3628624-3		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130		
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130		

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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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525131

QC Batch: 603744

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525131001

METHOD BLANK: 3180706

Matrix: Water

Associated Lab Samples: 92525131001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001		3180709		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	470	468	94	94	75-125	0

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: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525131

QC Batch: 603733	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525131001

METHOD BLANK: 3180662 Matrix: Water  
Associated Lab Samples: 92525131001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 11:45	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 11:45	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 11:45	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 11:45	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 11:45	
Benzene	ug/L	ND	0.50	03/03/21 11:45	
Bromobenzene	ug/L	ND	0.50	03/03/21 11:45	
Bromochloromethane	ug/L	ND	0.50	03/03/21 11:45	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 11:45	
Bromoform	ug/L	ND	0.50	03/03/21 11:45	
Bromomethane	ug/L	ND	5.0	03/03/21 11:45	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 11:45	
Chlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
Chloroethane	ug/L	ND	1.0	03/03/21 11:45	
Chloroform	ug/L	ND	0.50	03/03/21 11:45	
Chloromethane	ug/L	ND	1.0	03/03/21 11:45	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 11:45	
Dibromomethane	ug/L	ND	0.50	03/03/21 11:45	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 11:45	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 11:45	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525131

METHOD BLANK: 3180662

Matrix: Water

Associated Lab Samples: 92525131001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 11:45	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 11:45	
m&p-Xylene	ug/L	ND	1.0	03/03/21 11:45	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 11:45	
Methylene Chloride	ug/L	ND	2.0	03/03/21 11:45	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Naphthalene	ug/L	ND	2.0	03/03/21 11:45	
o-Xylene	ug/L	ND	0.50	03/03/21 11:45	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Styrene	ug/L	ND	0.50	03/03/21 11:45	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 11:45	
Toluene	ug/L	ND	0.50	03/03/21 11:45	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
Trichloroethene	ug/L	ND	0.50	03/03/21 11:45	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 11:45	
Vinyl chloride	ug/L	ND	1.0	03/03/21 11:45	
1,2-Dichloroethane-d4 (S)	%	99	70-130	03/03/21 11:45	
4-Bromofluorobenzene (S)	%	96	70-130	03/03/21 11:45	
Toluene-d8 (S)	%	96	70-130	03/03/21 11:45	

LABORATORY CONTROL SAMPLE: 3180663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,1-Trichloroethane	ug/L	50	50.4	101	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.3	103	60-140	
1,1-Dichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethene	ug/L	50	50.4	101	60-140	
1,1-Dichloropropene	ug/L	50	48.5	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	49.5	99	60-140	
1,2,3-Trichloropropane	ug/L	50	49.7	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.3	103	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.6	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	60-140	
1,2-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,2-Dichloroethane	ug/L	50	47.8	96	60-140	
1,2-Dichloropropane	ug/L	50	50.5	101	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525131

LABORATORY CONTROL SAMPLE: 3180663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	48.4	97	60-140	
2,2-Dichloropropane	ug/L	50	53.0	106	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.5	95	60-140	
Benzene	ug/L	50	49.0	98	60-140	
Bromobenzene	ug/L	50	50.8	102	60-140	
Bromochloromethane	ug/L	50	49.9	100	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	49.1	98	60-140	
Bromomethane	ug/L	50	56.6	113	60-140	
Carbon tetrachloride	ug/L	50	53.7	107	60-140	
Chlorobenzene	ug/L	50	51.4	103	60-140	
Chloroethane	ug/L	50	44.6	89	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	38.5	77	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.2	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	60-140	
Dibromochloromethane	ug/L	50	55.0	110	60-140	
Dibromomethane	ug/L	50	54.0	108	60-140	
Dichlorodifluoromethane	ug/L	50	48.2	96	60-140	
Diisopropyl ether	ug/L	50	45.5	91	60-140	
Ethylbenzene	ug/L	50	49.7	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.0	112	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	60-140	
m&p-Xylene	ug/L	100	103	103	60-140	
Methyl-tert-butyl ether	ug/L	50	48.5	97	60-140	
Methylene Chloride	ug/L	50	44.2	88	60-140	
n-Butylbenzene	ug/L	50	49.7	99	60-140	
n-Propylbenzene	ug/L	50	47.6	95	60-140	
Naphthalene	ug/L	50	50.7	101	60-140	
o-Xylene	ug/L	50	50.1	100	60-140	
sec-Butylbenzene	ug/L	50	48.1	96	60-140	
Styrene	ug/L	50	51.7	103	60-140	
tert-Butylbenzene	ug/L	50	42.3	85	60-140	
Tetrachloroethene	ug/L	50	52.3	105	60-140	
Toluene	ug/L	50	49.2	98	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.8	110	60-140	
Trichloroethene	ug/L	50	53.0	106	60-140	
Trichlorofluoromethane	ug/L	50	47.0	94	60-140	
Vinyl chloride	ug/L	50	41.9	84	60-140	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525131

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3180664		3180665								
Parameter	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	RPD	Qual
		92525131001	Spike	Spike	MS							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	15.3	22.2	77	111	60-140	37	R1	
1,1,1-Trichloroethane	ug/L	ND	20	20	15.5	22.7	77	113	60-140	38	R1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	14.4	21.5	72	107	60-140	40	R1	
1,1,2-Trichloroethane	ug/L	ND	20	20	14.5	22.1	72	110	60-140	42	R1	
1,1-Dichloroethane	ug/L	ND	20	20	14.7	21.3	73	107	60-140	37	R1	
1,1-Dichloroethene	ug/L	ND	20	20	16.3	23.5	81	118	60-140	37	R1	
1,1-Dichloropropene	ug/L	ND	20	20	15.3	22.0	77	110	60-140	36	R1	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.9	20.9	84	105	60-140	21		
1,2,3-Trichloropropane	ug/L	ND	20	20	14.3	19.8	71	99	60-140	32	R1	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.6	22.1	83	111	60-140	28		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	15.6	21.1	78	106	60-140	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	16.9	22.7	85	114	60-140	29		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	14.2	21.8	71	109	60-140	42	R1	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.2	21.2	76	106	60-140	33	R1	
1,2-Dichloroethane	ug/L	ND	20	20	14.3	20.6	71	103	60-140	36	R1	
1,2-Dichloropropane	ug/L	ND	20	20	15.5	22.4	78	112	60-140	36	R1	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	14.8	21.4	74	107	60-140	37	R1	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.5	21.7	77	109	60-140	34	R1	
1,3-Dichloropropane	ug/L	ND	20	20	14.8	21.8	74	109	60-140	38	R1	
1,4-Dichlorobenzene	ug/L	ND	20	20	14.7	20.7	74	103	60-140	33	R1	
2,2-Dichloropropane	ug/L	ND	20	20	16.1	24.0	80	120	60-140	39	R1	
2-Chlorotoluene	ug/L	ND	20	20	15.1	21.9	76	109	60-140	36	R1	
4-Chlorotoluene	ug/L	ND	20	20	14.5	20.9	72	104	60-140	36	R1	
Benzene	ug/L	ND	20	20	14.6	21.9	73	109	60-140	40	R1	
Bromobenzene	ug/L	ND	20	20	15.3	22.1	76	111	60-140	37	R1	
Bromochloromethane	ug/L	ND	20	20	14.9	21.9	74	110	60-140	38	R1	
Bromodichloromethane	ug/L	ND	20	20	15.1	21.8	75	109	60-140	37	R1	
Bromoform	ug/L	ND	20	20	13.4	20.2	67	101	60-140	40	R1	
Bromomethane	ug/L	ND	20	20	20.5	27.8	103	139	60-140	30		
Carbon tetrachloride	ug/L	ND	20	20	16.8	24.9	84	124	60-140	39	R1	
Chlorobenzene	ug/L	ND	20	20	15.7	22.9	78	115	60-140	37	R1	
Chloroethane	ug/L	ND	20	20	14.7	22.4	73	112	60-140	41	R1	
Chloroform	ug/L	0.50	20	20	15.7	21.7	76	106	60-140	32	R1	
Chloromethane	ug/L	ND	20	20	13.4	19.6	67	98	60-140	38	R1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	14.0	20.4	70	102	60-140	37	R1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.1	23.2	81	116	60-140	36	R1	
Dibromochloromethane	ug/L	ND	20	20	15.3	22.9	77	114	60-140	39	R1	
Dibromomethane	ug/L	ND	20	20	15.3	23.4	76	117	60-140	42	R1	
Dichlorodifluoromethane	ug/L	ND	20	20	14.6	21.1	73	105	60-140	36	R1	
Diisopropyl ether	ug/L	ND	20	20	13.3	19.4	67	97	60-140	37	R1	
Ethylbenzene	ug/L	ND	20	20	15.2	22.3	76	111	60-140	38	R1	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.6	26.6	98	133	60-140	30		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	15.5	22.6	77	113	60-140	37	R1	
m&p-Xylene	ug/L	ND	40	40	31.2	45.2	78	113	60-140	37	R1	
Methyl-tert-butyl ether	ug/L	ND	20	20	14.3	20.2	72	101	60-140	34	R1	
Methylene Chloride	ug/L	ND	20	20	13.4	19.8	67	99	60-140	39	R1	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525131

Parameter	92525131001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	15.6	21.9	78	110	60-140	33	R1			
n-Propylbenzene	ug/L	ND	20	20	15.3	21.9	77	109	60-140	35	R1			
Naphthalene	ug/L	ND	20	20	16.7	20.8	84	104	60-140	22				
o-Xylene	ug/L	ND	20	20	14.7	22.4	73	112	60-140	41	R1			
sec-Butylbenzene	ug/L	ND	20	20	15.4	21.8	77	109	60-140	34	R1			
Styrene	ug/L	ND	20	20	15.0	22.1	75	111	60-140	38	R1			
tert-Butylbenzene	ug/L	ND	20	20	13.6	19.4	68	97	60-140	36	R1			
Tetrachloroethene	ug/L	ND	20	20	16.0	23.8	80	119	60-140	39	R1			
Toluene	ug/L	ND	20	20	14.7	22.3	74	112	60-140	41	R1			
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.1	22.2	76	111	60-140	38	R1			
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.3	23.1	77	116	60-140	40	R1			
Trichloroethene	ug/L	ND	20	20	16.2	23.6	81	118	60-140	37	R1			
Trichlorofluoromethane	ug/L	ND	20	20	16.2	23.4	81	117	60-140	36	R1			
Vinyl chloride	ug/L	ND	20	20	13.9	20.1	69	101	60-140	37	R1			
1,2-Dichloroethane-d4 (S)	%						94	95	70-130					
4-Bromofluorobenzene (S)	%						97	100	70-130					
Toluene-d8 (S)	%						97	98	70-130					

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## QUALIFIERS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525131

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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.

### ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525131

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525131001	13835_AC_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525131001	13835_AC_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525131001	13835_AC_RD_20210302	SM 6200B	603733		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace Analytical

Company: Apex Companies  
Address:

Billing Information:

Report To: Andrew Street

Copy To: Andrew Street

Customer Project Name/Number: 2020-1-2448-Incident

Site/Facility ID #: NC/Huntersville

Phone: 704-244-1111

Email: Naomi.Fritz@paceanalytical.com

Collected By (print): Naomi Fritz

Collected By (signature): Naomi Fritz

Sample Disposal:  Same Day  Next Day

Dispose as appropriate  Return

Archive:  Hold:

\* Matrix Codes (insert in Matrix box below): Drinking Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: 13835-AN-ED-20210302-DW

Matrix\*: DW

Comp / Grab: 6

Collected (or Composite Start) Date: 3-2-21 Time: 1005

Composite End Date: \_\_\_\_\_ Time: \_\_\_\_\_

Res CI: \_\_\_\_\_

# of Ctns: 8

Type of Ice Used: BB Wet Blue Dry None

Packing Material Used: \_\_\_\_\_

Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature) SEE PACE FILE

Date/Time: 3-2-21 1705

Received by/Company: (Signature) \_\_\_\_\_

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

Received by/Company: (Signature) \_\_\_\_\_

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

Received by/Company: (Signature) \_\_\_\_\_

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

LAB USE ONLY:

WO#: **92525131**



AI

Container Pre 92525131

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Time/Zone Collected: PT MT CT ET

County/City: NC/Huntersville

Compliance Monitoring?  Yes  No

DW PWS ID #: \_\_\_\_\_

DW Location Code: \_\_\_\_\_

Immediately Packed on Ice:  Yes  No

Field Filtered (if applicable):  Yes  No

Analysis: \_\_\_\_\_

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	<u>Y</u>	<u>N</u>	<u>NA</u>
Custody Signatures Present	<u>Y</u>	<u>N</u>	<u>NA</u>
Collector Signatures Present	<u>Y</u>	<u>N</u>	<u>NA</u>
Bottles Intact	<u>Y</u>	<u>N</u>	<u>NA</u>
Correct Bottles	<u>Y</u>	<u>N</u>	<u>NA</u>
Sufficient Volume	<u>Y</u>	<u>N</u>	<u>NA</u>
Samples Received on Ice	<u>Y</u>	<u>N</u>	<u>NA</u>
VOA - Headspace Acceptable	<u>Y</u>	<u>N</u>	<u>NA</u>
USDA Regulated Soils	<u>Y</u>	<u>N</u>	<u>NA</u>
Samples in Holding Time	<u>Y</u>	<u>N</u>	<u>NA</u>
Residual Chlorine Present	<u>Y</u>	<u>N</u>	<u>NA</u>
Cl Strips:	<u>Y</u>	<u>N</u>	<u>NA</u>
Sample pH Acceptable	<u>Y</u>	<u>N</u>	<u>NA</u>
pH Strips:	<u>Y</u>	<u>N</u>	<u>NA</u>
Sulfide Present	<u>Y</u>	<u>N</u>	<u>NA</u>
Lead Acetate Strips:	<u>Y</u>	<u>N</u>	<u>NA</u>

LAB USE ONLY: Lab Sample # / Comments: 52525131 ee

Customer Remarks / Special Conditions / Possible Hazards:

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2616169

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: 3-2-21 1705

Table #: \_\_\_\_\_

Actctnum: \_\_\_\_\_

Template: \_\_\_\_\_

Prelogin: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

Lab Sample Temperature Info:

Temp Blank Received: 92525131 N NA

Therm ID#: 92525131 oc

Cooler 1 Temp Upon Receipt: 0.0 oc

Cooler 1 Therm Corr. Factor: 0.0 oc

Cooler 1 Corrected Temp: 0.0 oc

Comments: \_\_\_\_\_

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: \_\_\_\_\_ of: \_\_\_\_\_

March 16, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020L1-2448 Incident  
Pace Project No.: 92526625

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

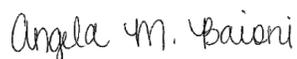
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised laboratory report is being submitted on 3/16/21 to update the sample ID, per client request.

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS

Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020L1-2448 Incident  
Pace Project No.: 92526625

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020L1-2448 Incident

Pace Project No.: 92526625

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526625001	13835_AC_RD_20210309	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020L1-2448 Incident

Pace Project No.: 92526625

**Sample: 13835\_AC\_RD\_20210309**    **Lab ID: 92526625001**    Collected: 03/09/21 11:05    Received: 03/09/21 17:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 20:27	03/12/21 20:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 20:27	03/12/21 20:27		
Aromatic (C09-C10), Unadjusted	ND	ug/L	100	1	03/12/21 20:27	03/12/21 20:27	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 20:27	03/12/21 20:27	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	97.1	%	70.0-130	1	03/12/21 20:27	03/12/21 20:27	615-59-8FID	
2,5-Dibromotoluene (PID)	93.7	%	70.0-130	1	03/12/21 20:27	03/12/21 20:27	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>13.5</b>	ug/L	5.0	1	03/12/21 02:20	03/12/21 16:15	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 03:56	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 03:56	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 03:56	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 03:56	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 03:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 03:56	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:56	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:56	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:56	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 03:56	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 03:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 03:56	75-00-3	
Chloroform	<b>0.54</b>	ug/L	0.50	1		03/12/21 03:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 03:56	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 03:56	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 03:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 03:56	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 03:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 03:56	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 03:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 03:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 03:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 03:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:56	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020L1-2448 Incident

Pace Project No.: 92526625

**Sample: 13835\_AC\_RD\_20210309**    **Lab ID: 92526625001**    Collected: 03/09/21 11:05    Received: 03/09/21 17:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:56	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 03:56	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 03:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 03:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 03:56	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 03:56	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 03:56	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 03:56	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 03:56	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 03:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 03:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 03:56	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 03:56	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 03:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 03:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 03:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 03:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 03:56	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 03:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 03:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 03:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 03:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 03:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 03:56	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 03:56	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 03:56	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/12/21 03:56	17060-07-0	
4-Bromofluorobenzene (S)	90	%	70-130	1		03/12/21 03:56	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		03/12/21 03:56	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020L1-2448 Incident  
Pace Project No.: 92526625

QC Batch: 1633636	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526625001

METHOD BLANK: R3630856-3 Matrix: Water  
Associated Lab Samples: 92526625001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/12/21 08:56	
Aliphatic (C09-C12)	ug/L	ND	100	03/12/21 08:56	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/12/21 08:56	
Total VPH	ug/L	ND	100	03/12/21 08:56	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	03/12/21 08:56	
2,5-Dibromotoluene (PID)	%	90.8	70.0-130	03/12/21 08:56	

Parameter	Units	R3630856-1		R3630856-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1310	1300	109	108	70.0-130	0.766	25
Aliphatic (C09-C12)	ug/L	1400	1660	1640	119	117	70.0-130	1.21	25
Aromatic (C09-C10),Unadjusted	ug/L	200	229	226	115	113	70.0-130	1.32	25
Total VPH	ug/L	2800	3200	3170	114	113	70.0-130	0.942	25
2,5-Dibromotoluene (FID)	%				94.3	99.6	70.0-130		
2,5-Dibromotoluene (PID)	%				93.2	97.1	70.0-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020L1-2448 Incident  
Pace Project No.: 92526625

QC Batch: 606129	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526625001

METHOD BLANK: 3193371 Matrix: Water  
Associated Lab Samples: 92526625001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/12/21 15:10	

LABORATORY CONTROL SAMPLE: 3193372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193373 3193374

Parameter	Units	92526300006		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Lead	ug/L	ND	500	500	477	478	95	95	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020L1-2448 Incident  
Pace Project No.: 92526625

QC Batch: 605982	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526625001

METHOD BLANK: 3192559 Matrix: Water

Associated Lab Samples: 92526625001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
Benzene	ug/L	ND	0.50	03/11/21 23:07	
Bromobenzene	ug/L	ND	0.50	03/11/21 23:07	
Bromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromoform	ug/L	ND	0.50	03/11/21 23:07	
Bromomethane	ug/L	ND	5.0	03/11/21 23:07	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 23:07	
Chlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
Chloroethane	ug/L	ND	1.0	03/11/21 23:07	
Chloroform	ug/L	ND	0.50	03/11/21 23:07	
Chloromethane	ug/L	ND	1.0	03/11/21 23:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Dibromomethane	ug/L	ND	0.50	03/11/21 23:07	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 23:07	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 23:07	

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### QUALITY CONTROL DATA

Project: 2020L1-2448 Incident  
Pace Project No.: 92526625

METHOD BLANK: 3192559 Matrix: Water  
Associated Lab Samples: 92526625001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 23:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 23:07	
m&p-Xylene	ug/L	ND	1.0	03/11/21 23:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 23:07	
Methylene Chloride	ug/L	ND	2.0	03/11/21 23:07	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Naphthalene	ug/L	ND	2.0	03/11/21 23:07	
o-Xylene	ug/L	ND	0.50	03/11/21 23:07	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Styrene	ug/L	ND	0.50	03/11/21 23:07	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 23:07	
Toluene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Trichloroethene	ug/L	ND	0.50	03/11/21 23:07	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 23:07	
Vinyl chloride	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/11/21 23:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/11/21 23:07	
Toluene-d8 (S)	%	100	70-130	03/11/21 23:07	

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	60-140	
1,1,1-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,2-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	46.5	93	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	46.6	93	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.9	88	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane	ug/L	50	46.7	93	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020L1-2448 Incident

Pace Project No.: 92526625

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.3	93	60-140	
1,3-Dichloropropane	ug/L	50	48.1	96	60-140	
1,4-Dichlorobenzene	ug/L	50	44.5	89	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	47.5	95	60-140	
4-Chlorotoluene	ug/L	50	44.3	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	49.5	99	60-140	
Bromochloromethane	ug/L	50	51.3	103	60-140	
Bromodichloromethane	ug/L	50	46.9	94	60-140	
Bromoform	ug/L	50	47.7	95	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	54.3	109	60-140	
Chlorobenzene	ug/L	50	47.5	95	60-140	
Chloroethane	ug/L	50	44.7	89	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	37.6	75	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	60-140	
Dibromochloromethane	ug/L	50	53.7	107	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	45.8	92	60-140	
Ethylbenzene	ug/L	50	45.5	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	60-140	
m&p-Xylene	ug/L	100	94.1	94	60-140	
Methyl-tert-butyl ether	ug/L	50	49.0	98	60-140	
Methylene Chloride	ug/L	50	45.2	90	60-140	
n-Butylbenzene	ug/L	50	42.1	84	60-140	
n-Propylbenzene	ug/L	50	44.4	89	60-140	
Naphthalene	ug/L	50	46.8	94	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	42.4	85	60-140	
Styrene	ug/L	50	48.8	98	60-140	
tert-Butylbenzene	ug/L	50	38.0	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	48.6	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	60-140	
Trichloroethene	ug/L	50	49.8	100	60-140	
Trichlorofluoromethane	ug/L	50	43.6	87	60-140	
Vinyl chloride	ug/L	50	40.1	80	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			106	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020L1-2448 Incident  
Pace Project No.: 92526625

Parameter	92526257003		MS	MSD	3192561		MS	MSD	% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	441	426	110	106	60-140	3			
1,1,1-Trichloroethane	ug/L	ND	400	400	439	437	110	109	60-140	0			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	420	400	105	100	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	400	400	427	400	107	100	60-140	6			
1,1-Dichloroethane	ug/L	ND	400	400	421	425	105	106	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	481	456	120	114	60-140	5			
1,1-Dichloropropene	ug/L	ND	400	400	416	421	104	105	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	327	356	82	89	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	400	400	394	378	99	95	60-140	4			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	346	361	86	90	60-140	4			
1,2,4-Trimethylbenzene	ug/L	148	400	400	537	531	97	96	60-140	1			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	424	409	106	102	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	449	416	112	104	60-140	8			
1,2-Dichlorobenzene	ug/L	ND	400	400	391	392	98	98	60-140	0			
1,2-Dichloroethane	ug/L	ND	400	400	402	411	101	103	60-140	2			
1,2-Dichloropropane	ug/L	ND	400	400	469	427	117	107	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	432	413	108	103	60-140	4			
1,3-Dichlorobenzene	ug/L	ND	400	400	410	401	103	100	60-140	2			
1,3-Dichloropropane	ug/L	ND	400	400	417	425	104	106	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	400	400	383	380	96	95	60-140	1			
2,2-Dichloropropane	ug/L	ND	400	400	355	358	89	89	60-140	1			
2-Chlorotoluene	ug/L	ND	400	400	411	417	103	104	60-140	1			
4-Chlorotoluene	ug/L	ND	400	400	399	382	100	96	60-140	4			
Benzene	ug/L	2140	400	400	2580	2600	111	114	60-140	1			
Bromobenzene	ug/L	ND	400	400	435	417	109	104	60-140	4			
Bromochloromethane	ug/L	ND	400	400	436	412	109	103	60-140	6			
Bromodichloromethane	ug/L	ND	400	400	419	405	105	101	60-140	4			
Bromoform	ug/L	ND	400	400	381	362	95	91	60-140	5			
Bromomethane	ug/L	ND	400	400	466	515	117	129	60-140	10			
Carbon tetrachloride	ug/L	ND	400	400	449	434	112	108	60-140	4			
Chlorobenzene	ug/L	ND	400	400	441	427	110	107	60-140	3			
Chloroethane	ug/L	ND	400	400	405	390	101	98	60-140	4			
Chloroform	ug/L	ND	400	400	438	424	109	106	60-140	3			
Chloromethane	ug/L	ND	400	400	366	367	92	92	60-140	0			
cis-1,2-Dichloroethene	ug/L	ND	400	400	406	409	101	102	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	433	421	108	105	60-140	3			
Dibromochloromethane	ug/L	ND	400	400	442	426	110	106	60-140	4			
Dibromomethane	ug/L	ND	400	400	442	444	110	111	60-140	1			
Dichlorodifluoromethane	ug/L	ND	400	400	404	390	101	97	60-140	4			
Diisopropyl ether	ug/L	227	400	400	627	627	100	100	60-140	0			
Ethylbenzene	ug/L	151	400	400	579	569	107	105	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	384	395	96	99	60-140	3			
Isopropylbenzene (Cumene)	ug/L	ND	400	400	429	410	107	103	60-140	5			
m&p-Xylene	ug/L	838	800	800	1750	1730	115	112	60-140	1			
Methyl-tert-butyl ether	ug/L	65.7	400	400	477	466	103	100	60-140	2			
Methylene Chloride	ug/L	ND	400	400	414	407	98	96	60-140	2			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020L1-2448 Incident

Pace Project No.: 92526625

Parameter	92526257003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	369	356	92	89	60-140	4				
n-Propylbenzene	ug/L	ND	400	400	413	396	103	99	60-140	4				
Naphthalene	ug/L	155	400	400	394	411	60	64	60-140	4				
o-Xylene	ug/L	465	400	400	915	910	113	111	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	408	389	102	97	60-140	5				
Styrene	ug/L	ND	400	400	424	411	106	103	60-140	3				
tert-Butylbenzene	ug/L	ND	400	400	367	349	92	87	60-140	5				
Tetrachloroethene	ug/L	ND	400	400	421	414	105	104	60-140	2				
Toluene	ug/L	2440	400	400	2870	2880	109	109	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	400	400	424	418	106	104	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	400	400	417	413	104	103	60-140	1				
Trichloroethene	ug/L	ND	400	400	451	427	113	107	60-140	6				
Trichlorofluoromethane	ug/L	ND	400	400	446	440	112	110	60-140	1				
Vinyl chloride	ug/L	ND	400	400	405	404	101	101	60-140	0				
1,2-Dichloroethane-d4 (S)	%						98	97	70-130					
4-Bromofluorobenzene (S)	%						99	99	70-130					
Toluene-d8 (S)	%						99	97	70-130					

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## QUALIFIERS

Project: 2020L1-2448 Incident

Pace Project No.: 92526625

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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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020L1-2448 Incident  
Pace Project No.: 92526625

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526625001	13835_AC_RD_20210309	MADEPV	1633636	MADEP VPH	1633636
92526625001	13835_AC_RD_20210309	EPA 3010A	606129	EPA 6010D	606150
92526625001	13835_AC_RD_20210309	SM 6200B	605982		

**REPORT OF LABORATORY ANALYSIS**

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March 23, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92527864

Dear Andrew Street:

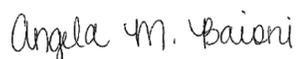
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Matt Teixeira, Apex Companies, LLC  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527864

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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

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 ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527864

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527864001	13835_AC_RD_20210316	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527864

Sample: 13835_AC_RD_20210316	Lab ID: 92527864001	Collected: 03/16/21 10:10	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/18/21 05:06		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/18/21 05:06		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/18/21 05:06		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/18/21 05:06		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	113	%	70-130	1		03/18/21 05:06	460-00-4	
4-Bromofluorobenzene (PID) (S)	109	%	70-130	1		03/18/21 05:06	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>6.2</b>	ug/L	5.0	1	03/17/21 16:09	03/18/21 22:33	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/19/21 19:32	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/19/21 19:32	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/19/21 19:32	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/19/21 19:32	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/19/21 19:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/19/21 19:32	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/19/21 19:32	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/19/21 19:32	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/19/21 19:32	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/19/21 19:32	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/19/21 19:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/19/21 19:32	75-00-3	
Chloroform	<b>0.51</b>	ug/L	0.50	1		03/19/21 19:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/19/21 19:32	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 19:32	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 19:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/19/21 19:32	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/19/21 19:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/19/21 19:32	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/19/21 19:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 19:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 19:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 19:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/19/21 19:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/19/21 19:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/19/21 19:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/19/21 19:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 19:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 19:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 19:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/19/21 19:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 19:32	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527864

Sample: 13835_AC_RD_20210316	Lab ID: 92527864001	Collected: 03/16/21 10:10	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/19/21 19:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 19:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 19:32	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/19/21 19:32	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/19/21 19:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/19/21 19:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/19/21 19:32	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/19/21 19:32	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/19/21 19:32	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/19/21 19:32	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/19/21 19:32	103-65-1	
Styrene	ND	ug/L	0.50	1		03/19/21 19:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 19:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 19:32	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/19/21 19:32	127-18-4	
Toluene	ND	ug/L	0.50	1		03/19/21 19:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 19:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 19:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/19/21 19:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/19/21 19:32	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/19/21 19:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/19/21 19:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/19/21 19:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 19:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 19:32	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/19/21 19:32	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/19/21 19:32	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/19/21 19:32	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/19/21 19:32	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/19/21 19:32	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/19/21 19:32	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527864

QC Batch: 607250

Analysis Method: MADEP VPH

QC Batch Method: MADEP VPH

Analysis Description: VPH NC Water

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527864001

METHOD BLANK: 3199083

Matrix: Water

Associated Lab Samples: 92527864001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/17/21 15:18	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/17/21 15:18	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/17/21 15:18	N2
4-Bromofluorobenzene (FID) (S)	%	110	70-130	03/17/21 15:18	
4-Bromofluorobenzene (PID) (S)	%	104	70-130	03/17/21 15:18	

LABORATORY CONTROL SAMPLE & LCSD: 3199084

3199085

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	331	354	110	118	70-130	7	25	N2
Aliphatic (C09-C12)	ug/L	300	349	357	116	119	70-130	2	25	N2
Aromatic (C09-C10)	ug/L	100	100	103	100	103	70-130	3	25	N2
4-Bromofluorobenzene (FID) (S)	%				108	115	70-130			
4-Bromofluorobenzene (PID) (S)	%				102	109	70-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527864

QC Batch: 607152

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92527864001

METHOD BLANK: 3198608

Matrix: Water

Associated Lab Samples: 92527864001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/18/21 22:07	

LABORATORY CONTROL SAMPLE: 3198609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198630 3198631

Parameter	Units	92527853001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	499	498	99	99	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527864

QC Batch: 607693      Analysis Method: SM 6200B  
QC Batch Method: SM 6200B      Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527864001

METHOD BLANK: 3201474      Matrix: Water  
Associated Lab Samples: 92527864001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/19/21 13:20	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/19/21 13:20	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/19/21 13:20	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
1,3-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
2,2-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
2-Chlorotoluene	ug/L	ND	0.50	03/19/21 13:20	
4-Chlorotoluene	ug/L	ND	0.50	03/19/21 13:20	
Benzene	ug/L	ND	0.50	03/19/21 13:20	
Bromobenzene	ug/L	ND	0.50	03/19/21 13:20	
Bromochloromethane	ug/L	ND	0.50	03/19/21 13:20	
Bromodichloromethane	ug/L	ND	0.50	03/19/21 13:20	
Bromoform	ug/L	ND	0.50	03/19/21 13:20	
Bromomethane	ug/L	ND	5.0	03/19/21 13:20	
Carbon tetrachloride	ug/L	ND	0.50	03/19/21 13:20	
Chlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
Chloroethane	ug/L	ND	1.0	03/19/21 13:20	
Chloroform	ug/L	ND	0.50	03/19/21 13:20	
Chloromethane	ug/L	ND	1.0	03/19/21 13:20	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
Dibromochloromethane	ug/L	ND	0.50	03/19/21 13:20	
Dibromomethane	ug/L	ND	0.50	03/19/21 13:20	
Dichlorodifluoromethane	ug/L	ND	0.50	03/19/21 13:20	
Diisopropyl ether	ug/L	ND	0.50	03/19/21 13:20	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527864

METHOD BLANK: 3201474 Matrix: Water  
Associated Lab Samples: 92527864001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/19/21 13:20	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/19/21 13:20	
m&p-Xylene	ug/L	ND	1.0	03/19/21 13:20	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/19/21 13:20	
Methylene Chloride	ug/L	ND	2.0	03/19/21 13:20	
n-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
n-Propylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Naphthalene	ug/L	ND	2.0	03/19/21 13:20	
o-Xylene	ug/L	ND	0.50	03/19/21 13:20	
sec-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Styrene	ug/L	ND	0.50	03/19/21 13:20	
tert-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Tetrachloroethene	ug/L	ND	0.50	03/19/21 13:20	
Toluene	ug/L	ND	0.50	03/19/21 13:20	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
Trichloroethene	ug/L	ND	0.50	03/19/21 13:20	
Trichlorofluoromethane	ug/L	ND	1.0	03/19/21 13:20	
Vinyl chloride	ug/L	ND	1.0	03/19/21 13:20	
1,2-Dichloroethane-d4 (S)	%	102	70-130	03/19/21 13:20	
4-Bromofluorobenzene (S)	%	104	70-130	03/19/21 13:20	
Toluene-d8 (S)	%	102	70-130	03/19/21 13:20	

LABORATORY CONTROL SAMPLE: 3201475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.2	108	60-140	
1,1,1-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	53.4	107	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	51.0	102	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.0	106	60-140	
1,2,3-Trichloropropane	ug/L	50	53.4	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.4	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.6	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.0	112	60-140	
1,2-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,2-Dichloroethane	ug/L	50	51.3	103	60-140	
1,2-Dichloropropane	ug/L	50	50.8	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.5	101	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527864

LABORATORY CONTROL SAMPLE: 3201475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.1	98	60-140	
1,3-Dichloropropane	ug/L	50	51.9	104	60-140	
1,4-Dichlorobenzene	ug/L	50	48.6	97	60-140	
2,2-Dichloropropane	ug/L	50	50.7	101	60-140	
2-Chlorotoluene	ug/L	50	49.3	99	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	49.8	100	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	51.0	102	60-140	
Bromodichloromethane	ug/L	50	52.3	105	60-140	
Bromoform	ug/L	50	43.0	86	60-140	
Bromomethane	ug/L	50	40.1	80	60-140	
Carbon tetrachloride	ug/L	50	53.0	106	60-140	
Chlorobenzene	ug/L	50	50.7	101	60-140	
Chloroethane	ug/L	50	42.1	84	60-140	
Chloroform	ug/L	50	47.6	95	60-140	
Chloromethane	ug/L	50	36.2	72	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.2	108	60-140	
Dibromochloromethane	ug/L	50	54.3	109	60-140	
Dibromomethane	ug/L	50	53.4	107	60-140	
Dichlorodifluoromethane	ug/L	50	44.4	89	60-140	
Diisopropyl ether	ug/L	50	48.3	97	60-140	
Ethylbenzene	ug/L	50	50.4	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.3	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.1	100	60-140	
Methylene Chloride	ug/L	50	44.8	90	60-140	
n-Butylbenzene	ug/L	50	54.6	109	60-140	
n-Propylbenzene	ug/L	50	48.6	97	60-140	
Naphthalene	ug/L	50	50.5	101	60-140	
o-Xylene	ug/L	50	52.5	105	60-140	
sec-Butylbenzene	ug/L	50	49.7	99	60-140	
Styrene	ug/L	50	51.5	103	60-140	
tert-Butylbenzene	ug/L	50	41.0	82	60-140	
Tetrachloroethene	ug/L	50	50.7	101	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	60-140	
Trichloroethene	ug/L	50	51.1	102	60-140	
Trichlorofluoromethane	ug/L	50	46.0	92	60-140	
Vinyl chloride	ug/L	50	41.5	83	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527864

Parameter	92527515019		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	24.0	21.7	120	109	60-140	10				
1,1,1-Trichloroethane	ug/L	ND	20	20	25.2	23.9	126	120	60-140	5				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	23.3	21.7	117	108	60-140	7				
1,1,2-Trichloroethane	ug/L	ND	20	20	24.5	22.9	122	115	60-140	6				
1,1-Dichloroethane	ug/L	ND	20	20	24.4	22.8	122	114	60-140	7				
1,1-Dichloroethene	ug/L	ND	20	20	26.3	24.4	132	122	60-140	7				
1,1-Dichloropropene	ug/L	ND	20	20	25.3	24.0	127	120	60-140	5				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	20.6	100	103	60-140	3				
1,2,3-Trichloropropane	ug/L	ND	20	20	24.2	22.2	121	111	60-140	9				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.6	20.5	103	103	60-140	1				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.3	20.0	107	100	60-140	7				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.8	20.5	114	103	60-140	11				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	23.9	22.8	120	114	60-140	5				
1,2-Dichlorobenzene	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3				
1,2-Dichloroethane	ug/L	ND	20	20	25.5	23.7	128	118	60-140	8				
1,2-Dichloropropane	ug/L	ND	20	20	23.5	22.8	118	114	60-140	3				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.5	20.0	107	100	60-140	7				
1,3-Dichlorobenzene	ug/L	ND	20	20	21.4	19.6	107	98	60-140	9				
1,3-Dichloropropane	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5				
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	19.4	101	97	60-140	5				
2,2-Dichloropropane	ug/L	ND	20	20	25.6	24.1	128	120	60-140	6				
2-Chlorotoluene	ug/L	ND	20	20	21.4	20.0	107	100	60-140	7				
4-Chlorotoluene	ug/L	ND	20	20	20.5	19.2	102	96	60-140	7				
Benzene	ug/L	ND	20	20	24.1	22.6	120	113	60-140	6				
Bromobenzene	ug/L	ND	20	20	20.8	19.4	104	97	60-140	7				
Bromochloromethane	ug/L	ND	20	20	25.2	24.3	126	121	60-140	4				
Bromodichloromethane	ug/L	ND	20	20	23.5	22.7	117	113	60-140	3				
Bromofom	ug/L	ND	20	20	20.2	19.1	101	96	60-140	5				
Bromomethane	ug/L	ND	20	20	19.3	18.9	97	94	60-140	3				
Carbon tetrachloride	ug/L	ND	20	20	25.9	25.4	129	127	60-140	2				
Chlorobenzene	ug/L	ND	20	20	22.9	21.1	114	106	60-140	8				
Chloroethane	ug/L	ND	20	20	24.8	21.3	124	106	60-140	15				
Chloroform	ug/L	ND	20	20	25.0	23.4	125	117	60-140	7				
Chloromethane	ug/L	ND	20	20	17.5	17.6	88	88	60-140	1				
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.7	22.7	118	114	60-140	4				
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	23.2	122	116	60-140	5				
Dibromochloromethane	ug/L	ND	20	20	23.8	22.5	119	113	60-140	5				
Dibromomethane	ug/L	ND	20	20	24.1	23.8	120	119	60-140	1				
Dichlorodifluoromethane	ug/L	ND	20	20	22.8	21.4	114	107	60-140	6				
Diisopropyl ether	ug/L	ND	20	20	23.6	21.7	118	109	60-140	8				
Ethylbenzene	ug/L	ND	20	20	22.1	21.3	111	106	60-140	4				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.8	22.5	109	113	60-140	3				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4				
m&p-Xylene	ug/L	ND	40	40	44.1	42.5	110	106	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	20	20	23.3	21.7	116	108	60-140	7				
Methylene Chloride	ug/L	ND	20	20	23.2	21.4	116	107	60-140	8				

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: 2020-L1-2448 Incident

Pace Project No.: 92527864

Parameter	92527515019		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.7	21.8	109	109	60-140	1				
n-Propylbenzene	ug/L	ND	20	20	20.7	19.7	103	98	60-140	5				
Naphthalene	ug/L	ND	20	20	19.6	19.5	98	97	60-140	1				
o-Xylene	ug/L	ND	20	20	23.1	21.5	115	108	60-140	7				
sec-Butylbenzene	ug/L	ND	20	20	21.5	20.9	108	105	60-140	3				
Styrene	ug/L	ND	20	20	22.0	20.7	110	104	60-140	6				
tert-Butylbenzene	ug/L	ND	20	20	17.8	17.0	89	85	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	22.0	21.7	110	109	60-140	1				
Toluene	ug/L	ND	20	20	23.1	22.2	115	111	60-140	4				
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.9	23.0	125	115	60-140	8				
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.9	22.3	120	111	60-140	7				
Trichloroethene	ug/L	ND	20	20	24.6	22.9	123	115	60-140	7				
Trichlorofluoromethane	ug/L	ND	20	20	24.1	23.1	121	115	60-140	4				
Vinyl chloride	ug/L	ND	20	20	21.1	20.2	106	101	60-140	5				
1,2-Dichloroethane-d4 (S)	%						103	104	70-130					
4-Bromofluorobenzene (S)	%						100	101	70-130					
Toluene-d8 (S)	%						99	99	70-130					

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: 2020-L1-2448 Incident

Pace Project No.: 92527864

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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.

### ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527864

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527864001	13835_AC_RD_20210316	MADEP VPH	607250		
92527864001	13835_AC_RD_20210316	EPA 3010A	607152	EPA 6010D	607431
92527864001	13835_AC_RD_20210316	SM 6200B	607693		

**REPORT OF LABORATORY ANALYSIS**

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Pace Companies  
Address: 10000 Street

Billing Information:  
Email: 10000 Street  
Site Collection Info/Address: 13835 Highway Chapel Rd

LAB USE ONLY  
**W0# : 92527864**  
92527864

Report To: Andrew Street  
Copy To: Andrew Street  
Customer Project Name/Number: 2020-L1-2448 Incident

Site/Facility ID #: NC1Northville  
State: NC County/City: Northville Time Zone Collected: PT MT CT FT

Phone: 704-244-1111  
Email: andrew@pace.com  
Compliance Monitoring?  Yes  No

Collected By (print): Naomi Feltz  
Purchase Order #: ASAP  
Quote #: ASAP  
Turnaround Date Required: ASAP

Collected By (signature): Naomi Feltz  
Sample Disposal:  Return  Dispose as appropriate  Hold

Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day  
Field Filtered (if applicable):  Yes  No  
Analysis: UOCs 6200B

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
<u>13835-AV-00-2020-034</u>	<u>DW</u>	<u>6</u>	<u>3/16/21</u>	<u>10:10</u>			<u>8</u>	<u>X</u>
								<u>X</u>
								<u>X</u>

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None  
Packing Material Used: BB  
Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature) MD G Rose  
Date/Time: 3-16-21 12:55

Relinquished by/Company: (Signature) Naomi Feltz  
Date/Time: 3-16-21 12:55

Relinquished by/Company: (Signature) \_\_\_\_\_  
Date/Time: \_\_\_\_\_

Container: 92527864  
Analyses: UOCs 6200B  
MADEP VPH  
Lead

Lab Profile/line: 2615897  
Lab Sample Receipt Checklist:

Custody seals Present/Intact	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Custody Signatures Present	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Collector Signature Present	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Bottles Intact	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Correct Bottles	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Sufficient Volume	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Samples Received on ice	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
VOA - Headspace Acceptable	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
USDA Regulated soils	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Samples in Holding Time	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Residual Chlorine Present	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Cl Strips:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Sample pH acceptable	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
pH Strips:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Sulfide Present	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Lead Acetate Strips:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA

LAB USE ONLY: Lab Sample # / Comments: 92527864  
001

SHORT HOLDS PRESENT (<72 hours): Y N NA  
Lab Tracking #: 2615897  
Samples received via: Client  
FEDEX UPS Courier Pace Courier  
MTJL LAB USE ONLY

Temp Blank Received: Y  
Therm ID#: 271064  
Cooler 1 Temp Upon Receipt: 1.7 °C  
Cooler 1 Therm Cor. Factor: 0.0 °C  
Cooler 1 Corrected Temp: 1.7 °C

Table #: \_\_\_\_\_  
Accrual: \_\_\_\_\_  
Template: \_\_\_\_\_  
Prelogin: \_\_\_\_\_  
PM: \_\_\_\_\_  
PB: \_\_\_\_\_

Non Conformance(s): NO  
Page: \_\_\_\_\_ of: \_\_\_\_\_



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

Project #

**WO# : 92527864**

PM: AMB

Due Date: 03/23/21

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

CLIENT: 92-APEX MOOR

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

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																												
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.)

March 15, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92525133

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

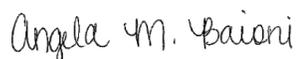
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised laboratory report is being submitted on 3/15/21 due to a sample ID entry error on the chain of custody.

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS

Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525133

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525133

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525133001	13901_Sims_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525133

**Sample:** 13901\_Sims\_RD\_20210302    **Lab ID:** 92525133001    Collected: 03/02/21 11:55    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 08:56	03/05/21 08:56		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 08:56	03/05/21 08:56		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 08:56	03/05/21 08:56	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 08:56	03/05/21 08:56	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	91.4	%	70.0-130	1	03/05/21 08:56	03/05/21 08:56	615-59-8FID	
2,5-Dibromotoluene (PID)	96.7	%	70.0-130	1	03/05/21 08:56	03/05/21 08:56	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 14:27	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 12:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 12:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 12:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 12:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 12:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 12:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 12:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 12:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 12:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 12:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 12:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 12:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 12:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 12:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 12:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 12:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:57	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525133

**Sample:** 13901\_Sims\_RD\_20210302    **Lab ID:** 92525133001    Collected: 03/02/21 11:55    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 12:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 12:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 12:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 12:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 12:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 12:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 12:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 12:57	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 12:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 12:57	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 12:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 12:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 12:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 12:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 12:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 12:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 12:57	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/03/21 12:57	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/03/21 12:57	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/03/21 12:57	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525133

QC Batch: 1629754

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525133001

METHOD BLANK: R3628624-2

Matrix: Water

Associated Lab Samples: 92525133001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

LABORATORY CONTROL SAMPLE & LCSD: R3628624-1 R3628624-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25	
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25	
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130			
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525133

QC Batch: 603744	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525133001

METHOD BLANK: 3180706 Matrix: Water  
Associated Lab Samples: 92525133001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	470	468	94	94	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525133

QC Batch: 603734 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525133001

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525133001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525133

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525133001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525133

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525133

Parameter	92525135001		MS	MSD	3180668		3180669		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	22.2	110	111	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	22.6	108	113	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	22.0	108	110	60-140	1			
1,1-Dichloroethane	ug/L	ND	20	20	21.2	21.1	106	105	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	22.9	22.8	114	114	60-140	0			
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.5	22.3	108	112	60-140	4			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	22.5	107	113	60-140	5			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3			
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2			
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1			
1,3-Dichlorobenzene	ug/L	ND	20	20	21.7	21.3	109	107	60-140	2			
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	20.7	109	103	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.4	22.9	117	115	60-140	2			
2-Chlorotoluene	ug/L	ND	20	20	21.7	21.4	108	107	60-140	1			
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2			
Benzene	ug/L	ND	20	20	22.0	22.0	110	110	60-140	0			
Bromobenzene	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4			
Bromochloromethane	ug/L	ND	20	20	22.2	22.1	111	110	60-140	1			
Bromodichloromethane	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2			
Bromoform	ug/L	ND	20	20	17.5	18.4	87	92	60-140	5			
Bromomethane	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.8	113	119	60-140	5			
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	106	109	60-140	2			
Chloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1			
Chloroform	ug/L	ND	20	20	20.7	21.1	103	105	60-140	2			
Chloromethane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4			
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.1	22.9	111	115	60-140	4			
Dibromochloromethane	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
Dibromomethane	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3			
Diisopropyl ether	ug/L	ND	20	20	18.5	18.9	93	95	60-140	2			
Ethylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1			
m&p-Xylene	ug/L	ND	40	40	43.3	44.6	108	111	60-140	3			
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3			
Methylene Chloride	ug/L	ND	20	20	17.9	17.9	89	90	60-140	1			

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: 2020-L1-2448 Incident  
Pace Project No.: 92525133

Parameter	Units	3180668		3180669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525135001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3		
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4		
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0		
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0		
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2		
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3		
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3		
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0		
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2		
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3		
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5		
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0		
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3		
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5		
1,2-Dichloroethane-d4 (S)	%							96	96	70-130		
4-Bromofluorobenzene (S)	%							100	102	70-130		
Toluene-d8 (S)	%							97	100	70-130		

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: 2020-L1-2448 Incident

Pace Project No.: 92525133

---

### 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.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525133

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525133001	13901_Sims_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525133001	13901_Sims_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525133001	13901_Sims_RD_20210302	SM 6200B	603734		

**REPORT OF LABORATORY ANALYSIS**

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number Or

## WO# : 92525133



92525133

Company: **Apex Companies**

Report To: **Andrew Street**  
Copy To: **Andrew Street & apcx.com**

Customer Project Name/Number: **2020-U-2448 Incident**  
Site/Facility ID #: \_\_\_\_\_  
Purchase Order #: \_\_\_\_\_  
Quote #: \_\_\_\_\_

Collected By (print): **Naomi Fritz**  
Turnaround Date Required: **ASAP**

Sample Disposal:  Same Day  Next Day  
 2 Day  3 Day  4 Day  5 Day  
 Hold: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SU), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp/Grab	Collected (or Composite Start)		Res CI	# of Ctns
			Date	Time		
13901-Sims-RD 2020202	DW	6	3-2-21	1155		8

Customer Remarks / Special Conditions / Possible Hazards: **Wet Blue Dry None**  
Packing Material Used: **PLB**  
Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) <b>Naomi Fritz / Apex</b>	Date/Time: <b>3-2-21 1705</b>	Received by/Company: (Signature) <b>SE PACT #16</b>	Date/Time: _____
Relinquished by/Company: (Signature)	Date/Time: _____	Received by/Company: (Signature)	Date/Time: _____
Relinquished by/Company: (Signature)	Date/Time: _____	Received by/Company: (Signature)	Date/Time: _____

Billing Information:

Email To: \_\_\_\_\_  
Site Collection Info/Address: \_\_\_\_\_  
State: \_\_\_\_\_

County/City: \_\_\_\_\_

Time Zone Collected: \_\_\_\_\_

Compliance Monitoring?  Yes  No

DW PWS ID #: \_\_\_\_\_  
DW Location Code: \_\_\_\_\_

Field Filtered (if applicable):  Yes  No

Analysis: \_\_\_\_\_

### Analyses

Lab Sample	Receipt Checklist:
MADEP UPH	Custody Seals Present/Intact Y N NA
	Custody Signatures Present Y N NA
	Collector Signature Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: <b>55000000</b> Y N NA
	Sample pH Acceptable Y N NA
	pH Strips: _____ Y N NA
	Sulfide Present Y N NA
	Lead Acetate Strips: _____ Y N NA

LAB USE ONLY:  
Lab Sample # / Comments: **92525133 001**

Lab Sample Temperature Info:  
Temp Blank Received: Y N NA  
Therm ID#: **411001**  
Cooler 1 Temp Upon Receipt: **1.1** °C  
Cooler 1 Therm Corr. Factor: **0.0** °C  
Cooler 1 Corrected Temp: **1.1** °C

Comments:  
Trip Blank Received: Y N NA  
HCL MeOH TSP Other  
Non Conformance(s): YES / NO  
Page: \_\_\_\_\_ of: \_\_\_\_\_

SHORT HOLDS PRESENT (<72 hours): Y N N/A  
Lab Tracking #: **2616166**  
Samples received via: FEDEX UPS Client  
Date/Time: **3-2-21 1705**

Table #: \_\_\_\_\_  
Accnum: \_\_\_\_\_  
Template: \_\_\_\_\_  
Prelogin: \_\_\_\_\_  
PM: \_\_\_\_\_  
PB: \_\_\_\_\_



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

Project # **W0# : 92525133**  
 PM: AMB Due Date: 03/09/21  
 CLIENT: 92-APEX MOOR

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

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

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																												
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).

March 09, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448  
Pace Project No.: 92525130

Dear Andrew Street:

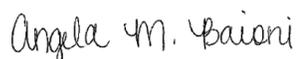
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448  
Pace Project No.: 92525130

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448

Pace Project No.: 92525130

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525130001	13920_SIMS_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92525130

**Sample: 13920\_SIMS\_RD\_20210302**    **Lab ID: 92525130001**    Collected: 03/02/21 13:00    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/06/21 00:10	03/06/21 00:10		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/06/21 00:10	03/06/21 00:10		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/06/21 00:10	03/06/21 00:10	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/06/21 00:10	03/06/21 00:10	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	87.6	%	70.0-130	1	03/06/21 00:10	03/06/21 00:10	615-59-8FID	
2,5-Dibromotoluene (PID)	92.5	%	70.0-130	1	03/06/21 00:10	03/06/21 00:10	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 14:07	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 17:09	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 17:09	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 17:09	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 17:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 17:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 17:09	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 17:09	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 17:09	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 17:09	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 17:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 17:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 17:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 17:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 17:09	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 17:09	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 17:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 17:09	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 17:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 17:09	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 17:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 17:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 17:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 17:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 17:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 17:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 17:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 17:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 17:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 17:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 17:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 17:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 17:09	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92525130

**Sample:** 13920\_SIMS\_RD\_20210302    **Lab ID:** 92525130001    Collected: 03/02/21 13:00    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 17:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 17:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 17:09	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 17:09	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 17:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 17:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 17:09	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 17:09	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 17:09	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 17:09	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 17:09	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 17:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 17:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 17:09	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 17:09	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 17:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 17:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 17:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 17:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 17:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 17:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 17:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 17:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 17:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 17:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 17:09	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 17:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 17:09	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/03/21 17:09	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		03/03/21 17:09	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/03/21 17:09	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92525130

QC Batch: 1630138

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525130001

METHOD BLANK: R3628726-2

Matrix: Water

Associated Lab Samples: 92525130001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/05/21 19:00	
Aliphatic (C09-C12)	ug/L	ND	100	03/05/21 19:00	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/05/21 19:00	
Total VPH	ug/L	ND	100	03/05/21 19:00	
2,5-Dibromotoluene (FID)	%	90.8	70.0-130	03/05/21 19:00	
2,5-Dibromotoluene (PID)	%	92.6	70.0-130	03/05/21 19:00	

LABORATORY CONTROL SAMPLE & LCSD: R3628726-1 R3628726-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1090	1100	90.8	91.7	70.0-130	0.913	25	
Aliphatic (C09-C12)	ug/L	1400	1270	1230	90.7	87.9	70.0-130	3.20	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	225	239	113	119	70.0-130	6.03	25	
Total VPH	ug/L	2800	2590	2570	92.5	91.8	70.0-130	0.775	25	
2,5-Dibromotoluene (FID)	%				90.2	94.7	70.0-130			
2,5-Dibromotoluene (PID)	%				92.9	97.9	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92525130

QC Batch: 603744

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525130001

METHOD BLANK: 3180706

Matrix: Water

Associated Lab Samples: 92525130001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	470	468	94	94	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92525130

QC Batch: 603733

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525130001

METHOD BLANK: 3180662

Matrix: Water

Associated Lab Samples: 92525130001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 11:45	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 11:45	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 11:45	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 11:45	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 11:45	
Benzene	ug/L	ND	0.50	03/03/21 11:45	
Bromobenzene	ug/L	ND	0.50	03/03/21 11:45	
Bromochloromethane	ug/L	ND	0.50	03/03/21 11:45	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 11:45	
Bromoform	ug/L	ND	0.50	03/03/21 11:45	
Bromomethane	ug/L	ND	5.0	03/03/21 11:45	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 11:45	
Chlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
Chloroethane	ug/L	ND	1.0	03/03/21 11:45	
Chloroform	ug/L	ND	0.50	03/03/21 11:45	
Chloromethane	ug/L	ND	1.0	03/03/21 11:45	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 11:45	
Dibromomethane	ug/L	ND	0.50	03/03/21 11:45	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 11:45	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 11:45	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92525130

METHOD BLANK: 3180662

Matrix: Water

Associated Lab Samples: 92525130001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 11:45	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 11:45	
m&p-Xylene	ug/L	ND	1.0	03/03/21 11:45	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 11:45	
Methylene Chloride	ug/L	ND	2.0	03/03/21 11:45	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Naphthalene	ug/L	ND	2.0	03/03/21 11:45	
o-Xylene	ug/L	ND	0.50	03/03/21 11:45	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Styrene	ug/L	ND	0.50	03/03/21 11:45	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 11:45	
Toluene	ug/L	ND	0.50	03/03/21 11:45	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
Trichloroethene	ug/L	ND	0.50	03/03/21 11:45	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 11:45	
Vinyl chloride	ug/L	ND	1.0	03/03/21 11:45	
1,2-Dichloroethane-d4 (S)	%	99	70-130	03/03/21 11:45	
4-Bromofluorobenzene (S)	%	96	70-130	03/03/21 11:45	
Toluene-d8 (S)	%	96	70-130	03/03/21 11:45	

LABORATORY CONTROL SAMPLE: 3180663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,1-Trichloroethane	ug/L	50	50.4	101	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.3	103	60-140	
1,1-Dichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethene	ug/L	50	50.4	101	60-140	
1,1-Dichloropropene	ug/L	50	48.5	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	49.5	99	60-140	
1,2,3-Trichloropropane	ug/L	50	49.7	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.3	103	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.6	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	60-140	
1,2-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,2-Dichloroethane	ug/L	50	47.8	96	60-140	
1,2-Dichloropropane	ug/L	50	50.5	101	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92525130

LABORATORY CONTROL SAMPLE: 3180663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	48.4	97	60-140	
2,2-Dichloropropane	ug/L	50	53.0	106	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.5	95	60-140	
Benzene	ug/L	50	49.0	98	60-140	
Bromobenzene	ug/L	50	50.8	102	60-140	
Bromochloromethane	ug/L	50	49.9	100	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	49.1	98	60-140	
Bromomethane	ug/L	50	56.6	113	60-140	
Carbon tetrachloride	ug/L	50	53.7	107	60-140	
Chlorobenzene	ug/L	50	51.4	103	60-140	
Chloroethane	ug/L	50	44.6	89	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	38.5	77	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.2	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	60-140	
Dibromochloromethane	ug/L	50	55.0	110	60-140	
Dibromomethane	ug/L	50	54.0	108	60-140	
Dichlorodifluoromethane	ug/L	50	48.2	96	60-140	
Diisopropyl ether	ug/L	50	45.5	91	60-140	
Ethylbenzene	ug/L	50	49.7	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.0	112	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	60-140	
m&p-Xylene	ug/L	100	103	103	60-140	
Methyl-tert-butyl ether	ug/L	50	48.5	97	60-140	
Methylene Chloride	ug/L	50	44.2	88	60-140	
n-Butylbenzene	ug/L	50	49.7	99	60-140	
n-Propylbenzene	ug/L	50	47.6	95	60-140	
Naphthalene	ug/L	50	50.7	101	60-140	
o-Xylene	ug/L	50	50.1	100	60-140	
sec-Butylbenzene	ug/L	50	48.1	96	60-140	
Styrene	ug/L	50	51.7	103	60-140	
tert-Butylbenzene	ug/L	50	42.3	85	60-140	
Tetrachloroethene	ug/L	50	52.3	105	60-140	
Toluene	ug/L	50	49.2	98	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.8	110	60-140	
Trichloroethene	ug/L	50	53.0	106	60-140	
Trichlorofluoromethane	ug/L	50	47.0	94	60-140	
Vinyl chloride	ug/L	50	41.9	84	60-140	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92525130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180664 3180665												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525131001 Result	Spike Conc.	Spike Conc.	MS Result							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	15.3	22.2	77	111	60-140	37	R1	
1,1,1-Trichloroethane	ug/L	ND	20	20	15.5	22.7	77	113	60-140	38	R1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	14.4	21.5	72	107	60-140	40	R1	
1,1,2-Trichloroethane	ug/L	ND	20	20	14.5	22.1	72	110	60-140	42	R1	
1,1-Dichloroethane	ug/L	ND	20	20	14.7	21.3	73	107	60-140	37	R1	
1,1-Dichloroethene	ug/L	ND	20	20	16.3	23.5	81	118	60-140	37	R1	
1,1-Dichloropropene	ug/L	ND	20	20	15.3	22.0	77	110	60-140	36	R1	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.9	20.9	84	105	60-140	21		
1,2,3-Trichloropropane	ug/L	ND	20	20	14.3	19.8	71	99	60-140	32	R1	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.6	22.1	83	111	60-140	28		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	15.6	21.1	78	106	60-140	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	16.9	22.7	85	114	60-140	29		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	14.2	21.8	71	109	60-140	42	R1	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.2	21.2	76	106	60-140	33	R1	
1,2-Dichloroethane	ug/L	ND	20	20	14.3	20.6	71	103	60-140	36	R1	
1,2-Dichloropropane	ug/L	ND	20	20	15.5	22.4	78	112	60-140	36	R1	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	14.8	21.4	74	107	60-140	37	R1	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.5	21.7	77	109	60-140	34	R1	
1,3-Dichloropropane	ug/L	ND	20	20	14.8	21.8	74	109	60-140	38	R1	
1,4-Dichlorobenzene	ug/L	ND	20	20	14.7	20.7	74	103	60-140	33	R1	
2,2-Dichloropropane	ug/L	ND	20	20	16.1	24.0	80	120	60-140	39	R1	
2-Chlorotoluene	ug/L	ND	20	20	15.1	21.9	76	109	60-140	36	R1	
4-Chlorotoluene	ug/L	ND	20	20	14.5	20.9	72	104	60-140	36	R1	
Benzene	ug/L	ND	20	20	14.6	21.9	73	109	60-140	40	R1	
Bromobenzene	ug/L	ND	20	20	15.3	22.1	76	111	60-140	37	R1	
Bromochloromethane	ug/L	ND	20	20	14.9	21.9	74	110	60-140	38	R1	
Bromodichloromethane	ug/L	ND	20	20	15.1	21.8	75	109	60-140	37	R1	
Bromoform	ug/L	ND	20	20	13.4	20.2	67	101	60-140	40	R1	
Bromomethane	ug/L	ND	20	20	20.5	27.8	103	139	60-140	30		
Carbon tetrachloride	ug/L	ND	20	20	16.8	24.9	84	124	60-140	39	R1	
Chlorobenzene	ug/L	ND	20	20	15.7	22.9	78	115	60-140	37	R1	
Chloroethane	ug/L	ND	20	20	14.7	22.4	73	112	60-140	41	R1	
Chloroform	ug/L	0.50	20	20	15.7	21.7	76	106	60-140	32	R1	
Chloromethane	ug/L	ND	20	20	13.4	19.6	67	98	60-140	38	R1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	14.0	20.4	70	102	60-140	37	R1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.1	23.2	81	116	60-140	36	R1	
Dibromochloromethane	ug/L	ND	20	20	15.3	22.9	77	114	60-140	39	R1	
Dibromomethane	ug/L	ND	20	20	15.3	23.4	76	117	60-140	42	R1	
Dichlorodifluoromethane	ug/L	ND	20	20	14.6	21.1	73	105	60-140	36	R1	
Diisopropyl ether	ug/L	ND	20	20	13.3	19.4	67	97	60-140	37	R1	
Ethylbenzene	ug/L	ND	20	20	15.2	22.3	76	111	60-140	38	R1	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.6	26.6	98	133	60-140	30		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	15.5	22.6	77	113	60-140	37	R1	
m&p-Xylene	ug/L	ND	40	40	31.2	45.2	78	113	60-140	37	R1	
Methyl-tert-butyl ether	ug/L	ND	20	20	14.3	20.2	72	101	60-140	34	R1	
Methylene Chloride	ug/L	ND	20	20	13.4	19.8	67	99	60-140	39	R1	

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: 2020-L1-2448

Pace Project No.: 92525130

Parameter	Units	3180664		3180665		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525131001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	20	20	15.6	21.9	78	110	60-140	33	R1	
n-Propylbenzene	ug/L	ND	20	20	15.3	21.9	77	109	60-140	35	R1	
Naphthalene	ug/L	ND	20	20	16.7	20.8	84	104	60-140	22		
o-Xylene	ug/L	ND	20	20	14.7	22.4	73	112	60-140	41	R1	
sec-Butylbenzene	ug/L	ND	20	20	15.4	21.8	77	109	60-140	34	R1	
Styrene	ug/L	ND	20	20	15.0	22.1	75	111	60-140	38	R1	
tert-Butylbenzene	ug/L	ND	20	20	13.6	19.4	68	97	60-140	36	R1	
Tetrachloroethene	ug/L	ND	20	20	16.0	23.8	80	119	60-140	39	R1	
Toluene	ug/L	ND	20	20	14.7	22.3	74	112	60-140	41	R1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.1	22.2	76	111	60-140	38	R1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.3	23.1	77	116	60-140	40	R1	
Trichloroethene	ug/L	ND	20	20	16.2	23.6	81	118	60-140	37	R1	
Trichlorofluoromethane	ug/L	ND	20	20	16.2	23.4	81	117	60-140	36	R1	
Vinyl chloride	ug/L	ND	20	20	13.9	20.1	69	101	60-140	37	R1	
1,2-Dichloroethane-d4 (S)	%						94	95	70-130			
4-Bromofluorobenzene (S)	%						97	100	70-130			
Toluene-d8 (S)	%						97	98	70-130			

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448

Pace Project No.: 92525130

---

### 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.

### ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448

Pace Project No.: 92525130

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525130001	13920_SIMS_RD_20210302	MADEPV	1630138	MADEP VPH	1630138
92525130001	13920_SIMS_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525130001	13920_SIMS_RD_20210302	SM 6200B	603733		

### REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information: Complete all relevant fields

LAB USE ONLY  
 WO#: 92525130  
 92525130  
 Worker Number or  
 Container P

Company: Pace Analytical  
 Address: 13920 Sims Rd  
 Report To: [Blank]  
 Copy To: [Blank]  
 Customer Project Name/Number: [Blank]

Email To: haddock@stark.com  
 Site Collection Info/Address: 13920 Sims Rd  
 State: NC / County/City: HUNTSVILLE / Time Zone Collected: [Blank]

Site/Facility ID #: [Blank]  
 Compliance Monitoring? [ ] Yes [ ] No  
 DW PWS ID #: [Blank]  
 DW Location Code: [Blank]

Collected By (print): [Blank]  
 Quote #: [Blank]  
 Turnaround Date Required: [Blank]

Sample Disposal: [ ] Same Day [ ] Next Day  
 [ ] Archive: [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 [ ] Hold: [Blank] (Expedite Charges Apply)

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW),  
 Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res C	# of Cns
			Date	Time	Date	Time		
13920 SIMS RD 2020-3-22	DW	6	3:21	13:00				8

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) acetic acid, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:	Lab Sample Receipt Checklist:
VOCs 6200 B		Custody Seals Present/Intact Y N NA
MADEP VPH		Custody Signatures Present Y N NA
Lead		Collector Signatures Present Y N NA
		Bottles Intact Y N NA
		Correct Bottles Y N NA
		Sufficient Volume Y N NA
		Samples Received on Ice Y N NA
		VOA - Headspace Acceptable Y N NA
		USDA Regulated Soils Y N NA
		Samples in Holding Time Y N NA
		Residual Chlorine Present Y N NA
		CI Strips: Y N NA
		Sample pH Acceptable Y N NA
		pH Strips: Y N NA
		Sulfide Present Y N NA
		Lead Acetate Strips: Y N NA

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used:	Wet	Blue	Dry	None	Radchem sample(s) screened (<500 cpm):	Samples received via:	Lab Tracking #:	SHORT HOLDS PRESENT (<72 hours):	Y	N	N/A	Lab Sample Temperature Info:
		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Client	2616165					Temp Blank Received: Y N NA Therm ID#: 922059
							UPS						Cooler 1 Temp Upon Receipt: 19 °C Cooler 1 Therm Cor. Factor: 0.0 °C Cooler 1 Corrected Temp: 19 °C
													Comments:

Relinquished by/Company: (Signature) *Neomark* Date/Time: 3-22-21 17:05  
 Relinquished by/Company: (Signature) *Neomark* Date/Time: 3-22-21 17:05

Relinquished by/Company: (Signature) *Neomark* Date/Time: 3-22-21 17:05  
 Relinquished by/Company: (Signature) *Neomark* Date/Time: 3-22-21 17:05

Relinquished by/Company: (Signature) [Blank] Date/Time: [Blank]  
 Relinquished by/Company: (Signature) [Blank] Date/Time: [Blank]

Relinquished by/Company: (Signature) [Blank] Date/Time: [Blank]  
 Relinquished by/Company: (Signature) [Blank] Date/Time: [Blank]

February 24, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92522435

Dear Andrew Street:

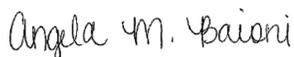
Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522435

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92522435

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92522435001	13926A_HC_RD_20210216	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522435

**Sample:** 13926A\_HC\_RD\_20210216    **Lab ID:** 92522435001    Collected: 02/16/21 12:15    Received: 02/16/21 13:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/24/21 00:13	02/24/21 00:13		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/24/21 00:13	02/24/21 00:13		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/24/21 00:13	02/24/21 00:13	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/24/21 00:13	02/24/21 00:13	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	77.4	%	70.0-130	1	02/24/21 00:13	02/24/21 00:13	615-59-8FID	
2,5-Dibromotoluene (PID)	77.7	%	70.0-130	1	02/24/21 00:13	02/24/21 00:13	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/17/21 01:43	02/17/21 20:45	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/18/21 18:20	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/18/21 18:20	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/18/21 18:20	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/18/21 18:20	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/18/21 18:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/18/21 18:20	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:20	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:20	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:20	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/18/21 18:20	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/18/21 18:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/21 18:20	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/18/21 18:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/21 18:20	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 18:20	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 18:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/18/21 18:20	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/18/21 18:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/18/21 18:20	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/18/21 18:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/18/21 18:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/18/21 18:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/18/21 18:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:20	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522435

**Sample:** 13926A\_HC\_RD\_20210216    **Lab ID:** 92522435001    Collected: 02/16/21 12:15    Received: 02/16/21 13:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:20	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/18/21 18:20	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/18/21 18:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/18/21 18:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/18/21 18:20	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/18/21 18:20	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/18/21 18:20	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/18/21 18:20	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/18/21 18:20	103-65-1	
Styrene	ND	ug/L	0.50	1		02/18/21 18:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 18:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 18:20	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/18/21 18:20	127-18-4	
Toluene	ND	ug/L	0.50	1		02/18/21 18:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 18:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 18:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/18/21 18:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/18/21 18:20	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/18/21 18:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/21 18:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/18/21 18:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 18:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 18:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/21 18:20	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/18/21 18:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/18/21 18:20	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		02/18/21 18:20	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		02/18/21 18:20	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		02/18/21 18:20	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522435

QC Batch: 1624518

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92522435001

METHOD BLANK: R3624660-3

Matrix: Water

Associated Lab Samples: 92522435001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/23/21 20:45	
Aliphatic (C09-C12)	ug/L	ND	100	02/23/21 20:45	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/23/21 20:45	
Total VPH	ug/L	ND	100	02/23/21 20:45	
2,5-Dibromotoluene (FID)	%	83.6	70.0-130	02/23/21 20:45	
2,5-Dibromotoluene (PID)	%	83.6	70.0-130	02/23/21 20:45	

LABORATORY CONTROL SAMPLE & LCSD: R3624660-1 R3624660-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1010	996	84.2	83.0	70.0-130	1.40	25	
Aliphatic (C09-C12)	ug/L	1400	1380	1390	98.6	99.3	70.0-130	0.722	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	197	195	98.5	97.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2590	2580	92.5	92.1	70.0-130	0.387	25	
2,5-Dibromotoluene (FID)	%				81.5	93.5	70.0-130			
2,5-Dibromotoluene (PID)	%				81.3	93.3	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522435

QC Batch: 600518	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92522435001

METHOD BLANK: 3165294 Matrix: Water  
Associated Lab Samples: 92522435001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/17/21 19:11	

LABORATORY CONTROL SAMPLE: 3165295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165296 3165297

Parameter	Units	92521876001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	519	516	104	103	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522435

QC Batch: 600709	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92522435001

METHOD BLANK: 3165931 Matrix: Water

Associated Lab Samples: 92522435001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/18/21 11:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/18/21 11:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/18/21 11:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
1,3-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
2,2-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
2-Chlorotoluene	ug/L	ND	0.50	02/18/21 11:49	
4-Chlorotoluene	ug/L	ND	0.50	02/18/21 11:49	
Benzene	ug/L	ND	0.50	02/18/21 11:49	
Bromobenzene	ug/L	ND	0.50	02/18/21 11:49	
Bromochloromethane	ug/L	ND	0.50	02/18/21 11:49	
Bromodichloromethane	ug/L	ND	0.50	02/18/21 11:49	
Bromoform	ug/L	ND	0.50	02/18/21 11:49	
Bromomethane	ug/L	ND	5.0	02/18/21 11:49	
Carbon tetrachloride	ug/L	ND	0.50	02/18/21 11:49	
Chlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
Chloroethane	ug/L	ND	1.0	02/18/21 11:49	
Chloroform	ug/L	ND	0.50	02/18/21 11:49	
Chloromethane	ug/L	ND	1.0	02/18/21 11:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
Dibromochloromethane	ug/L	ND	0.50	02/18/21 11:49	
Dibromomethane	ug/L	ND	0.50	02/18/21 11:49	
Dichlorodifluoromethane	ug/L	ND	0.50	02/18/21 11:49	
Diisopropyl ether	ug/L	ND	0.50	02/18/21 11:49	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522435

METHOD BLANK: 3165931 Matrix: Water  
Associated Lab Samples: 92522435001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/18/21 11:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/18/21 11:49	
m&p-Xylene	ug/L	ND	1.0	02/18/21 11:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/18/21 11:49	
Methylene Chloride	ug/L	ND	2.0	02/18/21 11:49	
n-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
n-Propylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Naphthalene	ug/L	ND	2.0	02/18/21 11:49	
o-Xylene	ug/L	ND	0.50	02/18/21 11:49	
sec-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Styrene	ug/L	ND	0.50	02/18/21 11:49	
tert-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Tetrachloroethene	ug/L	ND	0.50	02/18/21 11:49	
Toluene	ug/L	ND	0.50	02/18/21 11:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
Trichloroethene	ug/L	ND	0.50	02/18/21 11:49	
Trichlorofluoromethane	ug/L	ND	1.0	02/18/21 11:49	
Vinyl chloride	ug/L	ND	1.0	02/18/21 11:49	
1,2-Dichloroethane-d4 (S)	%	90	70-130	02/18/21 11:49	
4-Bromofluorobenzene (S)	%	100	70-130	02/18/21 11:49	
Toluene-d8 (S)	%	103	70-130	02/18/21 11:49	

LABORATORY CONTROL SAMPLE: 3165932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	60-140	
1,1,1-Trichloroethane	ug/L	50	45.8	92	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	60-140	
1,1,2-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1-Dichloroethane	ug/L	50	47.0	94	60-140	
1,1-Dichloroethene	ug/L	50	49.4	99	60-140	
1,1-Dichloropropene	ug/L	50	50.2	100	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.6	101	60-140	
1,2,3-Trichloropropane	ug/L	50	46.2	92	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.8	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.2	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.9	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	60-140	
1,2-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,2-Dichloroethane	ug/L	50	45.4	91	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	46.8	94	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522435

LABORATORY CONTROL SAMPLE: 3165932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	48.4	97	60-140	
1,4-Dichlorobenzene	ug/L	50	48.5	97	60-140	
2,2-Dichloropropane	ug/L	50	47.2	94	60-140	
2-Chlorotoluene	ug/L	50	49.7	99	60-140	
4-Chlorotoluene	ug/L	50	45.9	92	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	45.9	92	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	45.1	90	60-140	
Bromoform	ug/L	50	48.3	97	60-140	
Bromomethane	ug/L	50	43.0	86	60-140	
Carbon tetrachloride	ug/L	50	44.4	89	60-140	
Chlorobenzene	ug/L	50	48.3	97	60-140	
Chloroethane	ug/L	50	43.9	88	60-140	
Chloroform	ug/L	50	46.1	92	60-140	
Chloromethane	ug/L	50	42.5	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.3	95	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	60-140	
Dibromochloromethane	ug/L	50	52.0	104	60-140	
Dibromomethane	ug/L	50	47.5	95	60-140	
Dichlorodifluoromethane	ug/L	50	44.5	89	60-140	
Diisopropyl ether	ug/L	50	49.1	98	60-140	
Ethylbenzene	ug/L	50	47.0	94	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.0	94	60-140	
m&p-Xylene	ug/L	100	92.8	93	60-140	
Methyl-tert-butyl ether	ug/L	50	49.3	99	60-140	
Methylene Chloride	ug/L	50	45.5	91	60-140	
n-Butylbenzene	ug/L	50	52.0	104	60-140	
n-Propylbenzene	ug/L	50	47.6	95	60-140	
Naphthalene	ug/L	50	52.6	105	60-140	
o-Xylene	ug/L	50	47.7	95	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	49.2	98	60-140	
tert-Butylbenzene	ug/L	50	39.2	78	60-140	
Tetrachloroethene	ug/L	50	45.8	92	60-140	
Toluene	ug/L	50	46.5	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	41.5	83	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522435

Parameter	92522266001		MS	MSD	3165933		3165934		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.6	22.2	98	111	60-140	13			
1,1,1-Trichloroethane	ug/L	ND	20	20	20.3	22.3	101	111	60-140	9			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.8	21.1	99	106	60-140	7			
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	21.4	99	107	60-140	8			
1,1-Dichloroethane	ug/L	ND	20	20	19.9	21.2	99	106	60-140	6			
1,1-Dichloroethene	ug/L	ND	20	20	22.4	23.6	112	118	60-140	5			
1,1-Dichloropropene	ug/L	ND	20	20	19.8	22.1	99	111	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.4	20.4	97	102	60-140	5			
1,2,3-Trichloropropane	ug/L	ND	20	20	18.4	20.3	92	101	60-140	9			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.0	21.3	100	106	60-140	6			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.6	21.7	103	108	60-140	5			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.1	22.1	100	111	60-140	10			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.2	22.0	96	110	60-140	14			
1,2-Dichlorobenzene	ug/L	ND	20	20	21.1	22.2	106	111	60-140	5			
1,2-Dichloroethane	ug/L	ND	20	20	18.3	19.5	91	98	60-140	7			
1,2-Dichloropropane	ug/L	ND	20	20	18.9	20.7	94	103	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.8	21.3	104	107	60-140	3			
1,3-Dichlorobenzene	ug/L	ND	20	20	20.4	21.0	102	105	60-140	3			
1,3-Dichloropropane	ug/L	ND	20	20	18.4	21.4	92	107	60-140	15			
1,4-Dichlorobenzene	ug/L	ND	20	20	21.9	22.8	109	114	60-140	4			
2,2-Dichloropropane	ug/L	ND	20	20	19.7	21.3	98	106	60-140	8			
2-Chlorotoluene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5			
Benzene	ug/L	ND	20	20	19.6	21.1	98	105	60-140	7			
Bromobenzene	ug/L	ND	20	20	21.6	22.1	108	111	60-140	3			
Bromochloromethane	ug/L	ND	20	20	20.4	23.2	102	116	60-140	13			
Bromodichloromethane	ug/L	ND	20	20	19.3	20.7	96	103	60-140	7			
Bromoform	ug/L	ND	20	20	19.5	22.0	98	110	60-140	12			
Bromomethane	ug/L	ND	20	20	22.3	23.6	112	118	60-140	5			
Carbon tetrachloride	ug/L	ND	20	20	21.5	23.4	108	117	60-140	8			
Chlorobenzene	ug/L	ND	20	20	20.2	21.5	101	108	60-140	6			
Chloroethane	ug/L	ND	20	20	24.2	25.6	121	128	60-140	6			
Chloroform	ug/L	ND	20	20	19.8	21.2	99	106	60-140	7			
Chloromethane	ug/L	ND	20	20	18.8	20.0	93	100	60-140	6			
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.1	20.9	96	104	60-140	9			
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	21.2	97	106	60-140	9			
Dibromochloromethane	ug/L	ND	20	20	19.5	22.3	98	111	60-140	13			
Dibromomethane	ug/L	ND	20	20	21.9	22.5	109	113	60-140	3			
Dichlorodifluoromethane	ug/L	ND	20	20	25.1	26.1	125	131	60-140	4			
Diisopropyl ether	ug/L	ND	20	20	16.9	18.8	84	94	60-140	11			
Ethylbenzene	ug/L	ND	20	20	19.8	20.5	99	103	60-140	4			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.5	20.4	98	102	60-140	4			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	21.1	102	105	60-140	4			
m&p-Xylene	ug/L	ND	40	40	40.8	42.1	102	105	60-140	3			
Methyl-tert-butyl ether	ug/L	ND	20	20	18.7	21.6	94	108	60-140	14			
Methylene Chloride	ug/L	ND	20	20	18.1	19.7	91	98	60-140	8			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522435

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165933 3165934												
Parameter	Units	92522266001		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
n-Butylbenzene	ug/L	ND	20	20	20	20.2	20.4	101	102	60-140	1	
n-Propylbenzene	ug/L	ND	20	20	20	20.8	21.0	104	105	60-140	1	
Naphthalene	ug/L	ND	20	20	20	20.1	21.7	101	108	60-140	7	
o-Xylene	ug/L	ND	20	20	20	20.2	20.8	101	104	60-140	3	
sec-Butylbenzene	ug/L	ND	20	20	20	20.9	21.7	104	109	60-140	4	
Styrene	ug/L	ND	20	20	20	20.4	21.6	102	108	60-140	6	
tert-Butylbenzene	ug/L	ND	20	20	20	16.7	17.4	84	87	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	20	19.5	20.7	97	103	60-140	6	
Toluene	ug/L	ND	20	20	20	20.9	21.0	105	105	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20	20.4	21.7	102	109	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20	19.9	21.2	99	106	60-140	7	
Trichloroethene	ug/L	ND	20	20	20	20.1	21.5	100	108	60-140	7	
Trichlorofluoromethane	ug/L	ND	20	20	20	23.2	23.9	116	120	60-140	3	
Vinyl chloride	ug/L	ND	20	20	20	22.6	23.7	113	119	60-140	5	
1,2-Dichloroethane-d4 (S)	%							99	101	70-130		
4-Bromofluorobenzene (S)	%							101	100	70-130		
Toluene-d8 (S)	%							103	97	70-130		

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522435

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92522435

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92522435001	13926A_HC_RD_20210216	MADEPV	1624518	MADEP VPH	1624518
92522435001	13926A_HC_RD_20210216	EPA 3010A	600518	EPA 6010D	600543
92522435001	13926A_HC_RD_20210216	SM 6200B	600709		

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY Analytical Request Document**  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: *Apex Companies*  
 Address: \_\_\_\_\_  
 Report To: *Andrew Street*  
 Copy To: \_\_\_\_\_

Billing Information:  
 Email To: *Andrew.Street@apex.com*  
 Site Collection Info/Address: *13926A Hunters vllk Concord Rd*  
 State: *NC* County/City: *Huntersville*

Customer Project Name/Number: *2020-21-2448 Incident*  
 Site/Facility ID #: \_\_\_\_\_  
 DW PWS ID #: \_\_\_\_\_  
 DW Location Code: \_\_\_\_\_  
 Turnaround Date Required: *ASAP*  
 Rush: \_\_\_\_\_  
 Sample Disposal: \_\_\_\_\_  
 \* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp/Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns
<i>13926A-NC-PP-20210216</i>	<i>DW</i>	<i>G</i>	<i>2-16-21</i>	<i>1215</i>				<i>8</i>

Customer Remarks / Special Conditions / Possible Hazards: *Wet Blue Dry None*  
 Type of Ice Used: *Wet*  
 Packing Material Used: *0 bags*  
 Radchem sample(s) screened (<500 cpm): *Y N (NA)*  
 Received by/Company: (Signature) *MDG Beehive 2-16-21*  
 Date/Time: *2-16-21 1355*  
 Received by/Company: (Signature)  
 Date/Time:  
 Received by/Company: (Signature)  
 Date/Time:

Lab Profile/Line:  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact *Y (N) NA*  
 Custody Signatures Present *Y (N) NA*  
 Collector Signature Present *Y (N) NA*  
 Bottles Intact *Y (N) NA*  
 Correct Bottles *Y (N) NA*  
 Sufficient Volume *Y (N) NA*  
 Samples Received on Ice *Y (N) NA*  
 VOA - Headspace Acceptable *Y (N) NA*  
 USDA Regulated Soils *Y (N) NA*  
 Samples in Holding Time *Y (N) NA*  
 Residual Chlorine Present *Y (N) NA*  
 Cl Strips: \_\_\_\_\_  
 Sample pH Acceptable *Y (N) NA*  
 pH Strips: *225819AV*  
 Sulfide Present *Y (N) NA*  
 Lead Acetate Strips: \_\_\_\_\_  
 LAB USE ONLY:  
 Lab Sample # / Comments: *92522435*

Order Number or ID:  
**WO#: 92522435**  
 ILY  
 C: **92522435**

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

March 09, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523580

Dear Andrew Street:

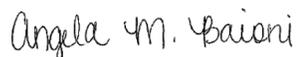
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523580

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523580

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523580001	13926A_HC_RD_20210223	MADEP VPH	JHH	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523580

**Sample:** 13926A\_HC\_RD\_20210223    **Lab ID:** 92523580001    Collected: 02/23/21 11:35    Received: 02/23/21 13:35    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/28/21 04:53	02/28/21 04:53		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/28/21 04:53	02/28/21 04:53		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/28/21 04:53	02/28/21 04:53	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/28/21 04:53	02/28/21 04:53	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	109	%	70.0-130	1	02/28/21 04:53	02/28/21 04:53	615-59-8FID	
2,5-Dibromotoluene (PID)	109	%	70.0-130	1	02/28/21 04:53	02/28/21 04:53	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/24/21 02:09	02/28/21 22:25	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/24/21 04:36	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/24/21 04:36	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/24/21 04:36	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/24/21 04:36	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/24/21 04:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/24/21 04:36	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:36	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:36	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:36	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/24/21 04:36	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/24/21 04:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/21 04:36	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/24/21 04:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/21 04:36	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 04:36	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 04:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/24/21 04:36	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/24/21 04:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/24/21 04:36	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/24/21 04:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/24/21 04:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/24/21 04:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/24/21 04:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:36	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523580

Sample: 13926A_HC_RD_20210223	Lab ID: 92523580001	Collected: 02/23/21 11:35	Received: 02/23/21 13:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:36	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/24/21 04:36	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/24/21 04:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/24/21 04:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/24/21 04:36	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/24/21 04:36	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/24/21 04:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/24/21 04:36	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/24/21 04:36	103-65-1	
Styrene	ND	ug/L	0.50	1		02/24/21 04:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 04:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 04:36	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/24/21 04:36	127-18-4	
Toluene	ND	ug/L	0.50	1		02/24/21 04:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 04:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 04:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/24/21 04:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/24/21 04:36	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/24/21 04:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/21 04:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/24/21 04:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 04:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 04:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/24/21 04:36	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/24/21 04:36	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/24/21 04:36	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		02/24/21 04:36	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		02/24/21 04:36	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		02/24/21 04:36	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523580

QC Batch: 1626945	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92523580001

METHOD BLANK: R3626445-3 Matrix: Water

Associated Lab Samples: 92523580001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/27/21 12:57	
Aliphatic (C09-C12)	ug/L	ND	100	02/27/21 12:57	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/27/21 12:57	
Total VPH	ug/L	ND	100	02/27/21 12:57	
2,5-Dibromotoluene (FID)	%	95.2	70.0-130	02/27/21 12:57	
2,5-Dibromotoluene (PID)	%	96.8	70.0-130	02/27/21 12:57	

LABORATORY CONTROL SAMPLE & LCSD: R3626445-1 R3626445-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1290	1290	107	107	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1670	1650	119	118	70.0-130	1.20	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	246	248	123	124	70.0-130	0.810	25	
Total VPH	ug/L	2800	3210	3190	115	114	70.0-130	0.625	25	
2,5-Dibromotoluene (FID)	%				102	105	70.0-130			
2,5-Dibromotoluene (PID)	%				104	107	70.0-130			

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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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523580

QC Batch: 602104

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523580001

METHOD BLANK: 3172642

Matrix: Water

Associated Lab Samples: 92523580001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/28/21 21:13	

LABORATORY CONTROL SAMPLE: 3172643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172644 3172645

Parameter	Units	92523735020		3172645		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1

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: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523580

QC Batch: 602003 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523580001

METHOD BLANK: 3172101 Matrix: Water  
Associated Lab Samples: 92523580001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
2,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
2-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
4-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
Benzene	ug/L	ND	0.50	02/24/21 00:42	
Bromobenzene	ug/L	ND	0.50	02/24/21 00:42	
Bromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromodichloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromoform	ug/L	ND	0.50	02/24/21 00:42	
Bromomethane	ug/L	ND	5.0	02/24/21 00:42	
Carbon tetrachloride	ug/L	ND	0.50	02/24/21 00:42	
Chlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
Chloroethane	ug/L	ND	1.0	02/24/21 00:42	
Chloroform	ug/L	ND	0.50	02/24/21 00:42	
Chloromethane	ug/L	ND	1.0	02/24/21 00:42	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Dibromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Dibromomethane	ug/L	ND	0.50	02/24/21 00:42	
Dichlorodifluoromethane	ug/L	ND	0.50	02/24/21 00:42	
Diisopropyl ether	ug/L	ND	0.50	02/24/21 00:42	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523580

METHOD BLANK: 3172101

Matrix: Water

Associated Lab Samples: 92523580001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/24/21 00:42	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/24/21 00:42	
m&p-Xylene	ug/L	ND	1.0	02/24/21 00:42	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/24/21 00:42	
Methylene Chloride	ug/L	ND	2.0	02/24/21 00:42	
n-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
n-Propylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Naphthalene	ug/L	ND	2.0	02/24/21 00:42	
o-Xylene	ug/L	ND	0.50	02/24/21 00:42	
sec-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Styrene	ug/L	ND	0.50	02/24/21 00:42	
tert-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Tetrachloroethene	ug/L	ND	0.50	02/24/21 00:42	
Toluene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Trichloroethene	ug/L	ND	0.50	02/24/21 00:42	
Trichlorofluoromethane	ug/L	ND	1.0	02/24/21 00:42	
Vinyl chloride	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dichloroethane-d4 (S)	%	99	70-130	02/24/21 00:42	
4-Bromofluorobenzene (S)	%	97	70-130	02/24/21 00:42	
Toluene-d8 (S)	%	101	70-130	02/24/21 00:42	

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	60-140	
1,1,2-Trichloroethane	ug/L	50	54.9	110	60-140	
1,1-Dichloroethane	ug/L	50	52.4	105	60-140	
1,1-Dichloroethene	ug/L	50	54.2	108	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.8	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.8	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	60-140	
1,2-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	56.7	113	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523580

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,3-Dichloropropane	ug/L	50	53.3	107	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	52.2	104	60-140	
2-Chlorotoluene	ug/L	50	51.1	102	60-140	
4-Chlorotoluene	ug/L	50	50.2	100	60-140	
Benzene	ug/L	50	53.9	108	60-140	
Bromobenzene	ug/L	50	51.1	102	60-140	
Bromochloromethane	ug/L	50	52.6	105	60-140	
Bromodichloromethane	ug/L	50	54.4	109	60-140	
Bromoform	ug/L	50	50.3	101	60-140	
Bromomethane	ug/L	50	52.1	104	60-140	
Carbon tetrachloride	ug/L	50	57.8	116	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	47.8	96	60-140	
Chloroform	ug/L	50	50.6	101	60-140	
Chloromethane	ug/L	50	43.1	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.3	115	60-140	
Dibromochloromethane	ug/L	50	56.5	113	60-140	
Dibromomethane	ug/L	50	55.8	112	60-140	
Dichlorodifluoromethane	ug/L	50	51.2	102	60-140	
Diisopropyl ether	ug/L	50	49.8	100	60-140	
Ethylbenzene	ug/L	50	52.0	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.5	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	48.6	97	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	49.7	99	60-140	
Naphthalene	ug/L	50	53.0	106	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	50.0	100	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	51.9	104	60-140	
Toluene	ug/L	50	53.3	107	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.3	117	60-140	
Trichloroethene	ug/L	50	55.5	111	60-140	
Trichlorofluoromethane	ug/L	50	47.6	95	60-140	
Vinyl chloride	ug/L	50	47.2	94	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			103	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523580

Parameter	92523527010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.4	104	107	60-140	2				
1,1,1-Trichloroethane	ug/L	ND	20	20	20.6	20.9	103	104	60-140	1				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.3	19.5	97	98	60-140	1				
1,1,2-Trichloroethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0				
1,1-Dichloroethane	ug/L	ND	20	20	20.4	20.0	102	100	60-140	2				
1,1-Dichloroethene	ug/L	ND	20	20	21.9	21.1	110	106	60-140	4				
1,1-Dichloropropene	ug/L	ND	20	20	21.1	20.6	105	103	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.8	19.1	109	96	60-140	13				
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	19.4	96	97	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.1	19.7	106	98	60-140	7				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.7	19.0	99	95	60-140	4				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.9	21.3	115	106	60-140	7				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.2	20.6	101	103	60-140	2				
1,2-Dichlorobenzene	ug/L	ND	20	20	20.2	19.0	101	95	60-140	6				
1,2-Dichloroethane	ug/L	ND	20	20	19.4	19.5	97	98	60-140	1				
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.5	108	108	60-140	0				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.0	19.3	100	96	60-140	4				
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.5	101	97	60-140	4				
1,3-Dichloropropane	ug/L	ND	20	20	19.9	20.0	100	100	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	18.6	95	93	60-140	2				
2,2-Dichloropropane	ug/L	ND	20	20	22.3	21.3	111	107	60-140	4				
2-Chlorotoluene	ug/L	ND	20	20	20.0	19.7	100	98	60-140	2				
4-Chlorotoluene	ug/L	ND	20	20	19.5	19.3	98	97	60-140	1				
Benzene	ug/L	ND	20	20	20.6	20.1	103	101	60-140	2				
Bromobenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	7				
Bromochloromethane	ug/L	ND	20	20	20.3	19.8	102	99	60-140	2				
Bromodichloromethane	ug/L	ND	20	20	19.7	20.0	98	100	60-140	2				
Bromoform	ug/L	ND	20	20	17.8	18.0	89	90	60-140	2				
Bromomethane	ug/L	ND	20	20	20.8	21.2	104	106	60-140	2				
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.0	113	110	60-140	3				
Chlorobenzene	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1				
Chloroethane	ug/L	ND	20	20	18.3	17.7	91	89	60-140	3				
Chloroform	ug/L	ND	20	20	19.9	19.5	100	98	60-140	2				
Chloromethane	ug/L	ND	20	20	15.3	15.3	76	76	60-140	0				
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	19.2	102	96	60-140	6				
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2				
Dibromochloromethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2				
Dibromomethane	ug/L	ND	20	20	20.8	20.7	104	104	60-140	0				
Dichlorodifluoromethane	ug/L	ND	20	20	12.8	12.8	64	64	60-140	0				
Diisopropyl ether	ug/L	ND	20	20	19.5	19.3	98	96	60-140	1				
Ethylbenzene	ug/L	ND	20	20	20.0	19.8	100	99	60-140	1				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.5	22.9	123	115	60-140	7				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	20.0	101	100	60-140	1				
m&p-Xylene	ug/L	ND	40	40	41.0	40.9	102	102	60-140	0				
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	19.8	100	99	60-140	1				
Methylene Chloride	ug/L	ND	20	20	18.9	18.6	94	93	60-140	2				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523580

Parameter	92523527010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.0	19.6	105	98	60-140	7				
n-Propylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Naphthalene	ug/L	ND	20	20	21.2	19.1	106	95	60-140	11				
o-Xylene	ug/L	ND	20	20	19.7	19.6	99	98	60-140	1				
sec-Butylbenzene	ug/L	ND	20	20	20.8	19.9	104	99	60-140	5				
Styrene	ug/L	ND	20	20	19.8	20.1	99	101	60-140	2				
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.5	90	87	60-140	3				
Tetrachloroethene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2				
Toluene	ug/L	ND	20	20	20.7	20.5	104	102	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.0	21.2	105	106	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.8	20.8	109	104	60-140	4				
Trichloroethene	ug/L	ND	20	20	21.3	20.9	107	104	60-140	2				
Trichlorofluoromethane	ug/L	ND	20	20	20.0	20.5	100	102	60-140	3				
Vinyl chloride	ug/L	ND	20	20	16.8	16.7	84	84	60-140	0				
1,2-Dichloroethane-d4 (S)	%						99	97	70-130					
4-Bromofluorobenzene (S)	%						98	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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## QUALIFIERS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523580

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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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523580001	13926A_HC_RD_20210223	MADEPV	1626945	MADEP VPH	1626945
92523580001	13926A_HC_RD_20210223	EPA 3010A	602104	EPA 6010D	602118
92523580001	13926A_HC_RD_20210223	SM 6200B	602003		

**REPORT OF LABORATORY ANALYSIS**

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March 11, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525137

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

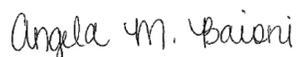
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised laboratory report is being submitted on 3/11/21 to revise the sample ID. It was entered incorrectly at sample log in.

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC

Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525137

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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 Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

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 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

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 ANALYTE COUNT

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525137

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525137001	13926A_HC_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525137

**Sample:** 13926A\_HC\_RD\_20210302    **Lab ID:** 92525137001    Collected: 03/02/21 11:25    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 07:50	03/05/21 07:50		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 07:50	03/05/21 07:50		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 07:50	03/05/21 07:50	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 07:50	03/05/21 07:50	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	98.4	%	70.0-130	1	03/05/21 07:50	03/05/21 07:50	615-59-8FID	
2,5-Dibromotoluene (PID)	101	%	70.0-130	1	03/05/21 07:50	03/05/21 07:50	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 14:53	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 15:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 15:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 15:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 15:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 15:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 15:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 15:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 15:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 15:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 15:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 15:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 15:19	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 15:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 15:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 15:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 15:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 15:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 15:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 15:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 15:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 15:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 15:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 15:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 15:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 15:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 15:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 15:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 15:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 15:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 15:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 15:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 15:19	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525137

**Sample:** 13926A\_HC\_RD\_20210302    **Lab ID:** 92525137001    Collected: 03/02/21 11:25    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 15:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 15:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 15:19	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 15:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 15:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 15:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 15:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 15:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 15:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 15:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 15:19	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 15:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 15:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 15:19	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 15:19	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 15:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 15:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 15:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 15:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 15:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 15:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 15:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 15:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 15:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 15:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 15:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 15:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 15:19	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/03/21 15:19	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/03/21 15:19	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/03/21 15:19	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525137

QC Batch: 1629754	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525137001

METHOD BLANK: R3628624-2 Matrix: Water

Associated Lab Samples: 92525137001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

LABORATORY CONTROL SAMPLE & LCSD: R3628624-1 R3628624-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25	
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25	
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130			
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525137

QC Batch: 603744

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525137001

METHOD BLANK: 3180706

Matrix: Water

Associated Lab Samples: 92525137001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	470	468	94	94	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525137

QC Batch: 603734

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525137001

METHOD BLANK: 3180666

Matrix: Water

Associated Lab Samples: 92525137001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525137

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525137001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525137

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525137

Parameter	92525135001		MS	MSD	3180668		3180669		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	22.2	110	111	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	22.6	108	113	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	22.0	108	110	60-140	1			
1,1-Dichloroethane	ug/L	ND	20	20	21.2	21.1	106	105	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	22.9	22.8	114	114	60-140	0			
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.5	22.3	108	112	60-140	4			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	22.5	107	113	60-140	5			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3			
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2			
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1			
1,3-Dichlorobenzene	ug/L	ND	20	20	21.7	21.3	109	107	60-140	2			
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	20.7	109	103	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.4	22.9	117	115	60-140	2			
2-Chlorotoluene	ug/L	ND	20	20	21.7	21.4	108	107	60-140	1			
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2			
Benzene	ug/L	ND	20	20	22.0	22.0	110	110	60-140	0			
Bromobenzene	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4			
Bromochloromethane	ug/L	ND	20	20	22.2	22.1	111	110	60-140	1			
Bromodichloromethane	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2			
Bromoform	ug/L	ND	20	20	17.5	18.4	87	92	60-140	5			
Bromomethane	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.8	113	119	60-140	5			
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	106	109	60-140	2			
Chloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1			
Chloroform	ug/L	ND	20	20	20.7	21.1	103	105	60-140	2			
Chloromethane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4			
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.1	22.9	111	115	60-140	4			
Dibromochloromethane	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
Dibromomethane	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3			
Diisopropyl ether	ug/L	ND	20	20	18.5	18.9	93	95	60-140	2			
Ethylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1			
m&p-Xylene	ug/L	ND	40	40	43.3	44.6	108	111	60-140	3			
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3			
Methylene Chloride	ug/L	ND	20	20	17.9	17.9	89	90	60-140	1			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525137

Parameter	Units	3180668		3180669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525135001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3		
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4		
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0		
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0		
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2		
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3		
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3		
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0		
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2		
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3		
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5		
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0		
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3		
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5		
1,2-Dichloroethane-d4 (S)	%							96	96	70-130		
4-Bromofluorobenzene (S)	%							100	102	70-130		
Toluene-d8 (S)	%							97	100	70-130		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525137

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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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525137

<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92525137001	13926A_HC_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525137001	13926A_HC_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525137001	13926A_HC_RD_20210302	SM 6200B	603734		

**REPORT OF LABORATORY ANALYSIS**

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CHAIN-OF-CUSTODY Analytical Request Document

LAB # 92525137

Number or

Page 15 of 15

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: Apex Companies

Address: 2020-L-2448 Incident

Container Preservative Type



Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Report To: Arthur Street

Email To: Arthur.Street@pace.com

Copy To:

Site Collection Info/Address: 13926 B Haverhill Ave Concord MA

Customer Project Name/Number: 2020-L-2448 Incident

State: Country/City: Time Zone Collected: VT Portland VT

Phone: Site/Facility ID #: Compliance Monitoring? Yes No

Collected By (print): Purchase Order #: DW PWS ID #: DW Location Code:

Turnaround Date Required: Immediately Packed on Ice: Yes No

Sample Disposal: Rush: Same Day Next Day Dispose as appropriate Return

Archive: 2 Day 3 Day 4 Day 5 Day Analysis:

Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Table with columns: Customer Sample ID, Matrix, Comp/Grab, Collected (or Composite Start) Date, Composite End Date, Res CI, # of Ctns

Table with columns: Lab Profile/line, Lab Sample Receipt Checklist, Lab Sample # / Comments, Temp Blank Received, Receipt, Factor, Cooler 1 Corrected Temp, Non Conformance(s)

Table with columns: Lab Tracking #, Samples received via, Client, Courier, Pace Courier, MTL LAB USE ONLY, Trip Blank Received, HCL, MeOH, TSP, Other

March 15, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92526622

Dear Andrew Street:

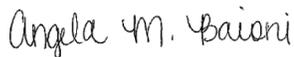
Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526622

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92526622

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526622001	13926A_HC_RD_20210309	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526622

**Sample:** 13926A\_HC\_RD\_20210309    **Lab ID:** 92526622001    Collected: 03/09/21 12:15    Received: 03/09/21 17:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 21:34	03/12/21 21:34		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 21:34	03/12/21 21:34		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 21:34	03/12/21 21:34	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 21:34	03/12/21 21:34	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	98.0	%	70.0-130	1	03/12/21 21:34	03/12/21 21:34	615-59-8FID	
2,5-Dibromotoluene (PID)	94.7	%	70.0-130	1	03/12/21 21:34	03/12/21 21:34	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>7.3</b>	ug/L	5.0	1	03/12/21 02:20	03/12/21 15:58	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 03:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 03:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 03:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 03:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 03:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 03:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 03:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 03:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 03:01	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 03:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 03:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 03:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 03:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 03:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 03:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 03:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 03:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 03:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 03:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 03:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:01	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526622

**Sample:** 13926A\_HC\_RD\_20210309    **Lab ID:** 92526622001    Collected: 03/09/21 12:15    Received: 03/09/21 17:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:01	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 03:01	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 03:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 03:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 03:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 03:01	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 03:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 03:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 03:01	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 03:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 03:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 03:01	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 03:01	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 03:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 03:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 03:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 03:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 03:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 03:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 03:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 03:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 03:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 03:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 03:01	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 03:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 03:01	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		03/12/21 03:01	17060-07-0	
4-Bromofluorobenzene (S)	91	%	70-130	1		03/12/21 03:01	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		03/12/21 03:01	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526622

QC Batch: 1633636 Analysis Method: MADEP VPH  
QC Batch Method: MADEPV Analysis Description: MADEPV  
Laboratory: Pace National - Mt. Juliet  
Associated Lab Samples: 92526622001

METHOD BLANK: R3630856-3 Matrix: Water  
Associated Lab Samples: 92526622001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/12/21 08:56	
Aliphatic (C09-C12)	ug/L	ND	100	03/12/21 08:56	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/12/21 08:56	
Total VPH	ug/L	ND	100	03/12/21 08:56	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	03/12/21 08:56	
2,5-Dibromotoluene (PID)	%	90.8	70.0-130	03/12/21 08:56	

Parameter	Units	R3630856-1		R3630856-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1310	1300	109	108	70.0-130	0.766	25
Aliphatic (C09-C12)	ug/L	1400	1660	1640	119	117	70.0-130	1.21	25
Aromatic (C09-C10),Unadjusted	ug/L	200	229	226	115	113	70.0-130	1.32	25
Total VPH	ug/L	2800	3200	3170	114	113	70.0-130	0.942	25
2,5-Dibromotoluene (FID)	%				94.3	99.6	70.0-130		
2,5-Dibromotoluene (PID)	%				93.2	97.1	70.0-130		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526622

QC Batch: 606129

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526622001

METHOD BLANK: 3193371

Matrix: Water

Associated Lab Samples: 92526622001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/12/21 15:10	

LABORATORY CONTROL SAMPLE: 3193372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193373

3193374

Parameter	Units	92526300006		3193374		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	477	478	95	95	75-125	0

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526622

QC Batch: 605982

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526622001

METHOD BLANK: 3192559

Matrix: Water

Associated Lab Samples: 92526622001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
Benzene	ug/L	ND	0.50	03/11/21 23:07	
Bromobenzene	ug/L	ND	0.50	03/11/21 23:07	
Bromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromoform	ug/L	ND	0.50	03/11/21 23:07	
Bromomethane	ug/L	ND	5.0	03/11/21 23:07	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 23:07	
Chlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
Chloroethane	ug/L	ND	1.0	03/11/21 23:07	
Chloroform	ug/L	ND	0.50	03/11/21 23:07	
Chloromethane	ug/L	ND	1.0	03/11/21 23:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Dibromomethane	ug/L	ND	0.50	03/11/21 23:07	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 23:07	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 23:07	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526622

METHOD BLANK: 3192559

Matrix: Water

Associated Lab Samples: 92526622001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 23:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 23:07	
m&p-Xylene	ug/L	ND	1.0	03/11/21 23:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 23:07	
Methylene Chloride	ug/L	ND	2.0	03/11/21 23:07	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Naphthalene	ug/L	ND	2.0	03/11/21 23:07	
o-Xylene	ug/L	ND	0.50	03/11/21 23:07	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Styrene	ug/L	ND	0.50	03/11/21 23:07	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 23:07	
Toluene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Trichloroethene	ug/L	ND	0.50	03/11/21 23:07	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 23:07	
Vinyl chloride	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/11/21 23:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/11/21 23:07	
Toluene-d8 (S)	%	100	70-130	03/11/21 23:07	

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	60-140	
1,1,1-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,2-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	46.5	93	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	46.6	93	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.9	88	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane	ug/L	50	46.7	93	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526622

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.3	93	60-140	
1,3-Dichloropropane	ug/L	50	48.1	96	60-140	
1,4-Dichlorobenzene	ug/L	50	44.5	89	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	47.5	95	60-140	
4-Chlorotoluene	ug/L	50	44.3	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	49.5	99	60-140	
Bromochloromethane	ug/L	50	51.3	103	60-140	
Bromodichloromethane	ug/L	50	46.9	94	60-140	
Bromoform	ug/L	50	47.7	95	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	54.3	109	60-140	
Chlorobenzene	ug/L	50	47.5	95	60-140	
Chloroethane	ug/L	50	44.7	89	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	37.6	75	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	60-140	
Dibromochloromethane	ug/L	50	53.7	107	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	45.8	92	60-140	
Ethylbenzene	ug/L	50	45.5	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	60-140	
m&p-Xylene	ug/L	100	94.1	94	60-140	
Methyl-tert-butyl ether	ug/L	50	49.0	98	60-140	
Methylene Chloride	ug/L	50	45.2	90	60-140	
n-Butylbenzene	ug/L	50	42.1	84	60-140	
n-Propylbenzene	ug/L	50	44.4	89	60-140	
Naphthalene	ug/L	50	46.8	94	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	42.4	85	60-140	
Styrene	ug/L	50	48.8	98	60-140	
tert-Butylbenzene	ug/L	50	38.0	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	48.6	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	60-140	
Trichloroethene	ug/L	50	49.8	100	60-140	
Trichlorofluoromethane	ug/L	50	43.6	87	60-140	
Vinyl chloride	ug/L	50	40.1	80	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			106	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526622

Parameter	92526257003		MS	MSD	3192561		3192562		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	441	426	110	106	60-140	3			
1,1,1-Trichloroethane	ug/L	ND	400	400	439	437	110	109	60-140	0			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	420	400	105	100	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	400	400	427	400	107	100	60-140	6			
1,1-Dichloroethane	ug/L	ND	400	400	421	425	105	106	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	481	456	120	114	60-140	5			
1,1-Dichloropropene	ug/L	ND	400	400	416	421	104	105	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	327	356	82	89	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	400	400	394	378	99	95	60-140	4			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	346	361	86	90	60-140	4			
1,2,4-Trimethylbenzene	ug/L	148	400	400	537	531	97	96	60-140	1			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	424	409	106	102	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	449	416	112	104	60-140	8			
1,2-Dichlorobenzene	ug/L	ND	400	400	391	392	98	98	60-140	0			
1,2-Dichloroethane	ug/L	ND	400	400	402	411	101	103	60-140	2			
1,2-Dichloropropane	ug/L	ND	400	400	469	427	117	107	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	432	413	108	103	60-140	4			
1,3-Dichlorobenzene	ug/L	ND	400	400	410	401	103	100	60-140	2			
1,3-Dichloropropane	ug/L	ND	400	400	417	425	104	106	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	400	400	383	380	96	95	60-140	1			
2,2-Dichloropropane	ug/L	ND	400	400	355	358	89	89	60-140	1			
2-Chlorotoluene	ug/L	ND	400	400	411	417	103	104	60-140	1			
4-Chlorotoluene	ug/L	ND	400	400	399	382	100	96	60-140	4			
Benzene	ug/L	2140	400	400	2580	2600	111	114	60-140	1			
Bromobenzene	ug/L	ND	400	400	435	417	109	104	60-140	4			
Bromochloromethane	ug/L	ND	400	400	436	412	109	103	60-140	6			
Bromodichloromethane	ug/L	ND	400	400	419	405	105	101	60-140	4			
Bromoform	ug/L	ND	400	400	381	362	95	91	60-140	5			
Bromomethane	ug/L	ND	400	400	466	515	117	129	60-140	10			
Carbon tetrachloride	ug/L	ND	400	400	449	434	112	108	60-140	4			
Chlorobenzene	ug/L	ND	400	400	441	427	110	107	60-140	3			
Chloroethane	ug/L	ND	400	400	405	390	101	98	60-140	4			
Chloroform	ug/L	ND	400	400	438	424	109	106	60-140	3			
Chloromethane	ug/L	ND	400	400	366	367	92	92	60-140	0			
cis-1,2-Dichloroethene	ug/L	ND	400	400	406	409	101	102	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	433	421	108	105	60-140	3			
Dibromochloromethane	ug/L	ND	400	400	442	426	110	106	60-140	4			
Dibromomethane	ug/L	ND	400	400	442	444	110	111	60-140	1			
Dichlorodifluoromethane	ug/L	ND	400	400	404	390	101	97	60-140	4			
Diisopropyl ether	ug/L	227	400	400	627	627	100	100	60-140	0			
Ethylbenzene	ug/L	151	400	400	579	569	107	105	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	384	395	96	99	60-140	3			
Isopropylbenzene (Cumene)	ug/L	ND	400	400	429	410	107	103	60-140	5			
m&p-Xylene	ug/L	838	800	800	1750	1730	115	112	60-140	1			
Methyl-tert-butyl ether	ug/L	65.7	400	400	477	466	103	100	60-140	2			
Methylene Chloride	ug/L	ND	400	400	414	407	98	96	60-140	2			

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: 2020-L1-2448 Incident

Pace Project No.: 92526622

Parameter	92526257003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	369	356	92	89	60-140	4				
n-Propylbenzene	ug/L	ND	400	400	413	396	103	99	60-140	4				
Naphthalene	ug/L	155	400	400	394	411	60	64	60-140	4				
o-Xylene	ug/L	465	400	400	915	910	113	111	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	408	389	102	97	60-140	5				
Styrene	ug/L	ND	400	400	424	411	106	103	60-140	3				
tert-Butylbenzene	ug/L	ND	400	400	367	349	92	87	60-140	5				
Tetrachloroethene	ug/L	ND	400	400	421	414	105	104	60-140	2				
Toluene	ug/L	2440	400	400	2870	2880	109	109	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	400	400	424	418	106	104	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	400	400	417	413	104	103	60-140	1				
Trichloroethene	ug/L	ND	400	400	451	427	113	107	60-140	6				
Trichlorofluoromethane	ug/L	ND	400	400	446	440	112	110	60-140	1				
Vinyl chloride	ug/L	ND	400	400	405	404	101	101	60-140	0				
1,2-Dichloroethane-d4 (S)	%						98	97	70-130					
4-Bromofluorobenzene (S)	%						99	99	70-130					
Toluene-d8 (S)	%						99	97	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526622

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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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526622

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526622001	13926A_HC_RD_20210309	MADEPV	1633636	MADEP VPH	1633636
92526622001	13926A_HC_RD_20210309	EPA 3010A	606129	EPA 6010D	606150
92526622001	13926A_HC_RD_20210309	SM 6200B	605982		

**REPORT OF LABORATORY ANALYSIS**

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Address: Andrew Street  
13926 Huntersville, NC

Report To: Andrew Street

Copy To: Andrew Street

Customer Project Name/Number: 2020-11-2448 Incident  
Site/Facility ID #: NCL Huntersville

State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Compliance Monitoring? [ ] Yes [ ] No  
DW PWS ID #: DW Location Code: Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
Rush: [ ] Yes [ ] No

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW),  
Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: 13926A-HL-PD-20210309  
Matrix #: DW  
Comp / Grab: G  
Collected (or Composite Start) Date: 3-9-21 Time: 1215  
Residue (Res) Cl: 8

Customer Remarks / Special Conditions / Possible Hazards: bubble bags

Type of Ice Used: [ ] Wet [ ] Blue [ ] Dry [ ] None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y - N (NA)

Relinquished by/Company: (Signature) Naomi Feb / Apex Date/Time: 3-9-21/1755

Relinquished by/Company: (Signature) Apex Date/Time: 3-9-21/1755

Relinquished by/Company: (Signature) Apex Date/Time: 3-9-21/1755

Received by/Company: (Signature) AD PACE 4VL Date/Time: 3-9-21/1755

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or

WO#: 92526622



92526622

Container Preservative Type: \*\*  
\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) sodium thiosulfate, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line: Analyses

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact Y (N) NA
- Custody Signatures Present Y (N) NA
- Collector Signatures Present Y (N) NA
- Bottles Intact Y (N) NA
- Correct Bottles Y (N) NA
- Sufficient Volume Y (N) NA
- Samples Received on Ice Y (N) NA
- VOA - Headspace Acceptable Y (N) NA
- USDA Regulated Soils Y (N) NA
- Samples in Holding Time Y (N) NA
- Residual Chlorine Present Y (N) NA
- Cl Strips: 22381912V Y (N) NA
- Sample pH Acceptable Y (N) NA
- pH Strips: 22381912V Y (N) NA
- Sulfide Present Y (N) NA
- Lead Acetate Strips: Y (N) NA

LAB USE ONLY: Lab Sample # / Comments: 92526622 001

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA  
Therm ID#: 92526622  
Cooler 1 Temp Upon Receipt: 28.0C  
Cooler 1 Therm Corr. Factor: 0.0C  
Cooler 1 Corrected Temp: 28.0C  
Comments:

Trip Blank Received: Y (N) NA  
HCL MeOH TSP Other

Non Conformance(s): YES (NO)  
Page: of:

March 23, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92527881

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Matt Teixeira, Apex Companies, LLC  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527881

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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

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 ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527881

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527881001	13926A_HC_RD_20210316	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527881

**Sample:** 13926A\_HC\_RD\_20210316    **Lab ID:** 92527881001    Collected: 03/16/21 11:45    Received: 03/16/21 12:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/18/21 07:00		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/18/21 07:00		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/18/21 07:00		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/18/21 07:00		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	107	%	70-130	1		03/18/21 07:00	460-00-4	
4-Bromofluorobenzene (PID) (S)	101	%	70-130	1		03/18/21 07:00	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 16:09	03/18/21 22:46	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/19/21 18:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/19/21 18:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/19/21 18:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/19/21 18:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/19/21 18:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/19/21 18:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/19/21 18:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/19/21 18:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/19/21 18:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/19/21 18:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/19/21 18:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/19/21 18:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/19/21 18:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/19/21 18:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 18:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 18:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/19/21 18:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/19/21 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/19/21 18:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/19/21 18:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 18:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 18:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 18:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/19/21 18:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/19/21 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/19/21 18:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/19/21 18:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 18:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 18:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/19/21 18:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 18:39	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527881

**Sample:** 13926A\_HC\_RD\_20210316    **Lab ID:** 92527881001    Collected: 03/16/21 11:45    Received: 03/16/21 12:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/19/21 18:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 18:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/19/21 18:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/19/21 18:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/19/21 18:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/19/21 18:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/19/21 18:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/19/21 18:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/19/21 18:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/19/21 18:39	103-65-1	
Styrene	ND	ug/L	0.50	1		03/19/21 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 18:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/19/21 18:39	127-18-4	
Toluene	ND	ug/L	0.50	1		03/19/21 18:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 18:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 18:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/19/21 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/19/21 18:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/19/21 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/19/21 18:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/19/21 18:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 18:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 18:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/19/21 18:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/19/21 18:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/19/21 18:39	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/19/21 18:39	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/19/21 18:39	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/19/21 18:39	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527881

QC Batch: 607250

Analysis Method: MADEP VPH

QC Batch Method: MADEP VPH

Analysis Description: VPH NC Water

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527881001

METHOD BLANK: 3199083

Matrix: Water

Associated Lab Samples: 92527881001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/17/21 15:18	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/17/21 15:18	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/17/21 15:18	N2
4-Bromofluorobenzene (FID) (S)	%	110	70-130	03/17/21 15:18	
4-Bromofluorobenzene (PID) (S)	%	104	70-130	03/17/21 15:18	

LABORATORY CONTROL SAMPLE & LCSD: 3199084

3199085

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	331	354	110	118	70-130	7	25	N2
Aliphatic (C09-C12)	ug/L	300	349	357	116	119	70-130	2	25	N2
Aromatic (C09-C10)	ug/L	100	100	103	100	103	70-130	3	25	N2
4-Bromofluorobenzene (FID) (S)	%				108	115	70-130			
4-Bromofluorobenzene (PID) (S)	%				102	109	70-130			

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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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527881

QC Batch: 607152

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92527881001

METHOD BLANK: 3198608

Matrix: Water

Associated Lab Samples: 92527881001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/18/21 22:07	

LABORATORY CONTROL SAMPLE: 3198609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198630 3198631

Parameter	Units	92527853001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	499	498	99	99	75-125	0		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527881

QC Batch: 607693 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527881001

METHOD BLANK: 3201474 Matrix: Water  
Associated Lab Samples: 92527881001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/19/21 13:20	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/19/21 13:20	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/19/21 13:20	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
1,3-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
2,2-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
2-Chlorotoluene	ug/L	ND	0.50	03/19/21 13:20	
4-Chlorotoluene	ug/L	ND	0.50	03/19/21 13:20	
Benzene	ug/L	ND	0.50	03/19/21 13:20	
Bromobenzene	ug/L	ND	0.50	03/19/21 13:20	
Bromochloromethane	ug/L	ND	0.50	03/19/21 13:20	
Bromodichloromethane	ug/L	ND	0.50	03/19/21 13:20	
Bromoform	ug/L	ND	0.50	03/19/21 13:20	
Bromomethane	ug/L	ND	5.0	03/19/21 13:20	
Carbon tetrachloride	ug/L	ND	0.50	03/19/21 13:20	
Chlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
Chloroethane	ug/L	ND	1.0	03/19/21 13:20	
Chloroform	ug/L	ND	0.50	03/19/21 13:20	
Chloromethane	ug/L	ND	1.0	03/19/21 13:20	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
Dibromochloromethane	ug/L	ND	0.50	03/19/21 13:20	
Dibromomethane	ug/L	ND	0.50	03/19/21 13:20	
Dichlorodifluoromethane	ug/L	ND	0.50	03/19/21 13:20	
Diisopropyl ether	ug/L	ND	0.50	03/19/21 13:20	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527881

METHOD BLANK: 3201474 Matrix: Water  
Associated Lab Samples: 92527881001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/19/21 13:20	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/19/21 13:20	
m&p-Xylene	ug/L	ND	1.0	03/19/21 13:20	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/19/21 13:20	
Methylene Chloride	ug/L	ND	2.0	03/19/21 13:20	
n-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
n-Propylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Naphthalene	ug/L	ND	2.0	03/19/21 13:20	
o-Xylene	ug/L	ND	0.50	03/19/21 13:20	
sec-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Styrene	ug/L	ND	0.50	03/19/21 13:20	
tert-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Tetrachloroethene	ug/L	ND	0.50	03/19/21 13:20	
Toluene	ug/L	ND	0.50	03/19/21 13:20	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
Trichloroethene	ug/L	ND	0.50	03/19/21 13:20	
Trichlorofluoromethane	ug/L	ND	1.0	03/19/21 13:20	
Vinyl chloride	ug/L	ND	1.0	03/19/21 13:20	
1,2-Dichloroethane-d4 (S)	%	102	70-130	03/19/21 13:20	
4-Bromofluorobenzene (S)	%	104	70-130	03/19/21 13:20	
Toluene-d8 (S)	%	102	70-130	03/19/21 13:20	

LABORATORY CONTROL SAMPLE: 3201475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.2	108	60-140	
1,1,1-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	53.4	107	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	51.0	102	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.0	106	60-140	
1,2,3-Trichloropropane	ug/L	50	53.4	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.4	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.6	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.0	112	60-140	
1,2-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,2-Dichloroethane	ug/L	50	51.3	103	60-140	
1,2-Dichloropropane	ug/L	50	50.8	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.5	101	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527881

LABORATORY CONTROL SAMPLE: 3201475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.1	98	60-140	
1,3-Dichloropropane	ug/L	50	51.9	104	60-140	
1,4-Dichlorobenzene	ug/L	50	48.6	97	60-140	
2,2-Dichloropropane	ug/L	50	50.7	101	60-140	
2-Chlorotoluene	ug/L	50	49.3	99	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	49.8	100	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	51.0	102	60-140	
Bromodichloromethane	ug/L	50	52.3	105	60-140	
Bromoform	ug/L	50	43.0	86	60-140	
Bromomethane	ug/L	50	40.1	80	60-140	
Carbon tetrachloride	ug/L	50	53.0	106	60-140	
Chlorobenzene	ug/L	50	50.7	101	60-140	
Chloroethane	ug/L	50	42.1	84	60-140	
Chloroform	ug/L	50	47.6	95	60-140	
Chloromethane	ug/L	50	36.2	72	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.2	108	60-140	
Dibromochloromethane	ug/L	50	54.3	109	60-140	
Dibromomethane	ug/L	50	53.4	107	60-140	
Dichlorodifluoromethane	ug/L	50	44.4	89	60-140	
Diisopropyl ether	ug/L	50	48.3	97	60-140	
Ethylbenzene	ug/L	50	50.4	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.3	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.1	100	60-140	
Methylene Chloride	ug/L	50	44.8	90	60-140	
n-Butylbenzene	ug/L	50	54.6	109	60-140	
n-Propylbenzene	ug/L	50	48.6	97	60-140	
Naphthalene	ug/L	50	50.5	101	60-140	
o-Xylene	ug/L	50	52.5	105	60-140	
sec-Butylbenzene	ug/L	50	49.7	99	60-140	
Styrene	ug/L	50	51.5	103	60-140	
tert-Butylbenzene	ug/L	50	41.0	82	60-140	
Tetrachloroethene	ug/L	50	50.7	101	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	60-140	
Trichloroethene	ug/L	50	51.1	102	60-140	
Trichlorofluoromethane	ug/L	50	46.0	92	60-140	
Vinyl chloride	ug/L	50	41.5	83	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527881

Parameter	92527515019		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	24.0	21.7	120	109	60-140	10				
1,1,1-Trichloroethane	ug/L	ND	20	20	25.2	23.9	126	120	60-140	5				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	23.3	21.7	117	108	60-140	7				
1,1,2-Trichloroethane	ug/L	ND	20	20	24.5	22.9	122	115	60-140	6				
1,1-Dichloroethane	ug/L	ND	20	20	24.4	22.8	122	114	60-140	7				
1,1-Dichloroethene	ug/L	ND	20	20	26.3	24.4	132	122	60-140	7				
1,1-Dichloropropene	ug/L	ND	20	20	25.3	24.0	127	120	60-140	5				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	20.6	100	103	60-140	3				
1,2,3-Trichloropropane	ug/L	ND	20	20	24.2	22.2	121	111	60-140	9				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.6	20.5	103	103	60-140	1				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.3	20.0	107	100	60-140	7				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.8	20.5	114	103	60-140	11				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	23.9	22.8	120	114	60-140	5				
1,2-Dichlorobenzene	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3				
1,2-Dichloroethane	ug/L	ND	20	20	25.5	23.7	128	118	60-140	8				
1,2-Dichloropropane	ug/L	ND	20	20	23.5	22.8	118	114	60-140	3				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.5	20.0	107	100	60-140	7				
1,3-Dichlorobenzene	ug/L	ND	20	20	21.4	19.6	107	98	60-140	9				
1,3-Dichloropropane	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5				
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	19.4	101	97	60-140	5				
2,2-Dichloropropane	ug/L	ND	20	20	25.6	24.1	128	120	60-140	6				
2-Chlorotoluene	ug/L	ND	20	20	21.4	20.0	107	100	60-140	7				
4-Chlorotoluene	ug/L	ND	20	20	20.5	19.2	102	96	60-140	7				
Benzene	ug/L	ND	20	20	24.1	22.6	120	113	60-140	6				
Bromobenzene	ug/L	ND	20	20	20.8	19.4	104	97	60-140	7				
Bromochloromethane	ug/L	ND	20	20	25.2	24.3	126	121	60-140	4				
Bromodichloromethane	ug/L	ND	20	20	23.5	22.7	117	113	60-140	3				
Bromoform	ug/L	ND	20	20	20.2	19.1	101	96	60-140	5				
Bromomethane	ug/L	ND	20	20	19.3	18.9	97	94	60-140	3				
Carbon tetrachloride	ug/L	ND	20	20	25.9	25.4	129	127	60-140	2				
Chlorobenzene	ug/L	ND	20	20	22.9	21.1	114	106	60-140	8				
Chloroethane	ug/L	ND	20	20	24.8	21.3	124	106	60-140	15				
Chloroform	ug/L	ND	20	20	25.0	23.4	125	117	60-140	7				
Chloromethane	ug/L	ND	20	20	17.5	17.6	88	88	60-140	1				
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.7	22.7	118	114	60-140	4				
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	23.2	122	116	60-140	5				
Dibromochloromethane	ug/L	ND	20	20	23.8	22.5	119	113	60-140	5				
Dibromomethane	ug/L	ND	20	20	24.1	23.8	120	119	60-140	1				
Dichlorodifluoromethane	ug/L	ND	20	20	22.8	21.4	114	107	60-140	6				
Diisopropyl ether	ug/L	ND	20	20	23.6	21.7	118	109	60-140	8				
Ethylbenzene	ug/L	ND	20	20	22.1	21.3	111	106	60-140	4				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.8	22.5	109	113	60-140	3				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4				
m&p-Xylene	ug/L	ND	40	40	44.1	42.5	110	106	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	20	20	23.3	21.7	116	108	60-140	7				
Methylene Chloride	ug/L	ND	20	20	23.2	21.4	116	107	60-140	8				

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527881

Parameter	92527515019		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.7	21.8	109	109	60-140	1				
n-Propylbenzene	ug/L	ND	20	20	20.7	19.7	103	98	60-140	5				
Naphthalene	ug/L	ND	20	20	19.6	19.5	98	97	60-140	1				
o-Xylene	ug/L	ND	20	20	23.1	21.5	115	108	60-140	7				
sec-Butylbenzene	ug/L	ND	20	20	21.5	20.9	108	105	60-140	3				
Styrene	ug/L	ND	20	20	22.0	20.7	110	104	60-140	6				
tert-Butylbenzene	ug/L	ND	20	20	17.8	17.0	89	85	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	22.0	21.7	110	109	60-140	1				
Toluene	ug/L	ND	20	20	23.1	22.2	115	111	60-140	4				
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.9	23.0	125	115	60-140	8				
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.9	22.3	120	111	60-140	7				
Trichloroethene	ug/L	ND	20	20	24.6	22.9	123	115	60-140	7				
Trichlorofluoromethane	ug/L	ND	20	20	24.1	23.1	121	115	60-140	4				
Vinyl chloride	ug/L	ND	20	20	21.1	20.2	106	101	60-140	5				
1,2-Dichloroethane-d4 (S)	%						103	104	70-130					
4-Bromofluorobenzene (S)	%						100	101	70-130					
Toluene-d8 (S)	%						99	99	70-130					

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527881

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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.

### ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 Incident

Pace Project No.: 92527881

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527881001	13926A_HC_RD_20210316	MADEP VPH	607250		
92527881001	13926A_HC_RD_20210316	EPA 3010A	607152	EPA 6010D	607431
92527881001	13926A_HC_RD_20210316	SM 6200B	607693		

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**CHAIN-OF-CUSTODY Analytical Request Document**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**Company:** Apex Companies  
**Address:** Andrew Street, 13926A Huntersville, NC 28078  
**Report To:** Andrew Street  
**Copy To:** Andrew Street  
**Customer Project Name/Number:** 2020-11-2448 Incidents  
**Site/Facility ID #:**  
**Phone:**  
**Email:**  
**Collected By (print):** Naomi Fetz  
**Collected By (signature):** Naomi Fetz  
**Sample Disposal:**  
 Dispose as appropriate  Return  
 Archive: \_\_\_\_\_  
 Hold: \_\_\_\_\_

**Matrix Codes (Insert in Matrix box below):** Drinking Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res CI	# of Ctns	Type of Ice Used:					
									Wet	Blue	Dry	None		
13926A-HC-0020210316	DW	6	3-16-21	11:15				8						

**Customer Remarks / Special Conditions / Possible Hazards:**  
 Packing Material Used: 66  
 Radchem sample(s) screened (<500 cpm): Y N NA  
 Received by/Company: (Signature) MDC/Bechtel 3-16-21 12:55  
 Received by/Company: (Signature)  
 Received by/Company: (Signature)

LAB U **WO# : 92527881** Number or  
  
 Conta. **92527881**

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:	Lab Sample Receipt Checklist:
UCLs 6200B MADEP VPH Lead		Custody Seals Present/Intact Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Custody Signatures Present Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Collector Signatures Present Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Bottles Intact Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Correct Bottles Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Sufficient Volume Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Samples Received on Ice Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA VOA - Headspace Acceptable Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA USDA Regulated Soils Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Samples in Holding Time Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Residual Chlorine Present Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Cl Strips: 225819414 Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Sample pH Acceptable Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA pH Strips: 225819414 Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Sulfide Present Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA Lead Acetate Strips: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA LAB USE ONLY: Lab Sample # / Comments: 92527881 001

**SHORT HOLDS PRESENT (<72 hours):** Y N N/A

Lab Tracking #: 2615875

Samples received via: Client Courier Pace Courier  
 FEDEX UPS

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

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

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

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

Table #: \_\_\_\_\_  
 Actnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_

Lab Sample Temperature Info:  
 Temp Blank Received: Y  N  NA  
 Therm ID#: 92527881  
 Cooler 1 Temp Upon Receipt: 7.1 oC  
 Cooler 1 Therm Corr. Factor: 0.0 oC  
 Cooler 1 Corrected Temp: 7.1 oC  
 Comments:

Trip Blank Received: Y  N  NA  
 HCL MeOH TSP Other

Non Conformance(s): YES  NO   
 Page: \_\_\_\_\_ of: \_\_\_\_\_



Project #

**W0# : 92527881**

PM: AMB

Due Date: 03/23/21

CLIENT: 92-APEX MOOR

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

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

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

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																													
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.

March 09, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

Dear Andrew Street:

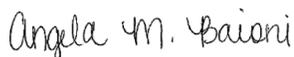
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### 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

### Pace Analytical Services Asheville

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525144001	DUP-1	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92525144002	FB-1	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92525144003	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Sample: DUP-1	Lab ID: 92525144001	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 03:19	03/05/21 03:19		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 03:19	03/05/21 03:19		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 03:19	03/05/21 03:19	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 03:19	03/05/21 03:19	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	88.3	%	70.0-130	1	03/05/21 03:19	03/05/21 03:19	615-59-8FID	
2,5-Dibromotoluene (PID)	93.4	%	70.0-130	1	03/05/21 03:19	03/05/21 03:19	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 15:10	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 15:02	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 15:02	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 15:02	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 15:02	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 15:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 15:02	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 15:02	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 15:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 15:02	75-00-3	
Chloroform	0.54	ug/L	0.50	1		03/03/21 15:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 15:02	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 15:02	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 15:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 15:02	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 15:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 15:02	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 15:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 15:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 15:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 15:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 15:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 15:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 15:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 15:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 15:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 15:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 15:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 15:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 15:02	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Sample: DUP-1	Lab ID: 92525144001	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 15:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 15:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 15:02	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 15:02	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 15:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 15:02	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 15:02	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 15:02	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 15:02	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 15:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 15:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 15:02	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 15:02	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 15:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 15:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 15:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 15:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 15:02	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 15:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 15:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 15:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 15:02	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 15:02	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 15:02	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/03/21 15:02	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/03/21 15:02	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/03/21 15:02	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Sample: <b>FB-1</b>	Lab ID: <b>92525144002</b>	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 03:52	03/05/21 03:52		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 03:52	03/05/21 03:52		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 03:52	03/05/21 03:52	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 03:52	03/05/21 03:52	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	86.2	%	70.0-130	1	03/05/21 03:52	03/05/21 03:52	615-59-8FID	
2,5-Dibromotoluene (PID)	89.2	%	70.0-130	1	03/05/21 03:52	03/05/21 03:52	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 15:13	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 12:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 12:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 12:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 12:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 12:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 12:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 12:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 12:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 12:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 12:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 12:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 12:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 12:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 12:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 12:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Sample: <b>FB-1</b>	Lab ID: <b>92525144002</b>	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 12:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 12:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 12:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 12:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 12:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 12:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 12:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 12:39	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 12:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 12:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 12:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 12:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 12:39	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/03/21 12:39	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		03/03/21 12:39	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/03/21 12:39	2037-26-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Sample: Trip Blank		Lab ID: 92525144003	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/03/21 12:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 12:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 12:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 12:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 12:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 12:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 12:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 12:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 12:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 12:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 12:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 12:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 12:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 12:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 12:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 12:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 12:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 12:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 12:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 12:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 12:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 12:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 12:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:21	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:21	79-34-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

<b>Sample: Trip Blank</b>		<b>Lab ID: 92525144003</b>	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 12:21	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 12:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 12:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 12:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 12:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 12:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 12:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 12:21	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/03/21 12:21	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/03/21 12:21	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/03/21 12:21	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

QC Batch: 1629754	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525144001, 92525144002

METHOD BLANK: R3628624-2 Matrix: Water

Associated Lab Samples: 92525144001, 92525144002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

LABORATORY CONTROL SAMPLE & LCSD: R3628624-1 R3628624-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25	
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25	
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130			
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130			

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**QUALITY CONTROL DATA**

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

QC Batch: 603744

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525144001, 92525144002

METHOD BLANK: 3180706

Matrix: Water

Associated Lab Samples: 92525144001, 92525144002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Lead	ug/L	ND	500	500	470	468	94	94	75-125	0			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

QC Batch: 603733 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525144002, 92525144003

METHOD BLANK: 3180662 Matrix: Water

Associated Lab Samples: 92525144002, 92525144003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 11:45	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 11:45	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 11:45	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 11:45	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 11:45	
Benzene	ug/L	ND	0.50	03/03/21 11:45	
Bromobenzene	ug/L	ND	0.50	03/03/21 11:45	
Bromochloromethane	ug/L	ND	0.50	03/03/21 11:45	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 11:45	
Bromoform	ug/L	ND	0.50	03/03/21 11:45	
Bromomethane	ug/L	ND	5.0	03/03/21 11:45	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 11:45	
Chlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
Chloroethane	ug/L	ND	1.0	03/03/21 11:45	
Chloroform	ug/L	ND	0.50	03/03/21 11:45	
Chloromethane	ug/L	ND	1.0	03/03/21 11:45	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 11:45	
Dibromomethane	ug/L	ND	0.50	03/03/21 11:45	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 11:45	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 11:45	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

METHOD BLANK: 3180662

Matrix: Water

Associated Lab Samples: 92525144002, 92525144003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 11:45	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 11:45	
m&p-Xylene	ug/L	ND	1.0	03/03/21 11:45	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 11:45	
Methylene Chloride	ug/L	ND	2.0	03/03/21 11:45	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Naphthalene	ug/L	ND	2.0	03/03/21 11:45	
o-Xylene	ug/L	ND	0.50	03/03/21 11:45	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Styrene	ug/L	ND	0.50	03/03/21 11:45	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 11:45	
Toluene	ug/L	ND	0.50	03/03/21 11:45	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
Trichloroethene	ug/L	ND	0.50	03/03/21 11:45	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 11:45	
Vinyl chloride	ug/L	ND	1.0	03/03/21 11:45	
1,2-Dichloroethane-d4 (S)	%	99	70-130	03/03/21 11:45	
4-Bromofluorobenzene (S)	%	96	70-130	03/03/21 11:45	
Toluene-d8 (S)	%	96	70-130	03/03/21 11:45	

LABORATORY CONTROL SAMPLE: 3180663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,1-Trichloroethane	ug/L	50	50.4	101	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.3	103	60-140	
1,1-Dichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethene	ug/L	50	50.4	101	60-140	
1,1-Dichloropropene	ug/L	50	48.5	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	49.5	99	60-140	
1,2,3-Trichloropropane	ug/L	50	49.7	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.3	103	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.6	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	60-140	
1,2-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,2-Dichloroethane	ug/L	50	47.8	96	60-140	
1,2-Dichloropropane	ug/L	50	50.5	101	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

LABORATORY CONTROL SAMPLE: 3180663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	48.4	97	60-140	
2,2-Dichloropropane	ug/L	50	53.0	106	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.5	95	60-140	
Benzene	ug/L	50	49.0	98	60-140	
Bromobenzene	ug/L	50	50.8	102	60-140	
Bromochloromethane	ug/L	50	49.9	100	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	49.1	98	60-140	
Bromomethane	ug/L	50	56.6	113	60-140	
Carbon tetrachloride	ug/L	50	53.7	107	60-140	
Chlorobenzene	ug/L	50	51.4	103	60-140	
Chloroethane	ug/L	50	44.6	89	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	38.5	77	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.2	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	60-140	
Dibromochloromethane	ug/L	50	55.0	110	60-140	
Dibromomethane	ug/L	50	54.0	108	60-140	
Dichlorodifluoromethane	ug/L	50	48.2	96	60-140	
Diisopropyl ether	ug/L	50	45.5	91	60-140	
Ethylbenzene	ug/L	50	49.7	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.0	112	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	60-140	
m&p-Xylene	ug/L	100	103	103	60-140	
Methyl-tert-butyl ether	ug/L	50	48.5	97	60-140	
Methylene Chloride	ug/L	50	44.2	88	60-140	
n-Butylbenzene	ug/L	50	49.7	99	60-140	
n-Propylbenzene	ug/L	50	47.6	95	60-140	
Naphthalene	ug/L	50	50.7	101	60-140	
o-Xylene	ug/L	50	50.1	100	60-140	
sec-Butylbenzene	ug/L	50	48.1	96	60-140	
Styrene	ug/L	50	51.7	103	60-140	
tert-Butylbenzene	ug/L	50	42.3	85	60-140	
Tetrachloroethene	ug/L	50	52.3	105	60-140	
Toluene	ug/L	50	49.2	98	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.8	110	60-140	
Trichloroethene	ug/L	50	53.0	106	60-140	
Trichlorofluoromethane	ug/L	50	47.0	94	60-140	
Vinyl chloride	ug/L	50	41.9	84	60-140	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

Parameter	92525131001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	15.3	22.2	77	111	60-140	37	R1			
1,1,1-Trichloroethane	ug/L	ND	20	20	15.5	22.7	77	113	60-140	38	R1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	14.4	21.5	72	107	60-140	40	R1			
1,1,2-Trichloroethane	ug/L	ND	20	20	14.5	22.1	72	110	60-140	42	R1			
1,1-Dichloroethane	ug/L	ND	20	20	14.7	21.3	73	107	60-140	37	R1			
1,1-Dichloroethene	ug/L	ND	20	20	16.3	23.5	81	118	60-140	37	R1			
1,1-Dichloropropene	ug/L	ND	20	20	15.3	22.0	77	110	60-140	36	R1			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.9	20.9	84	105	60-140	21				
1,2,3-Trichloropropane	ug/L	ND	20	20	14.3	19.8	71	99	60-140	32	R1			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.6	22.1	83	111	60-140	28				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	15.6	21.1	78	106	60-140	30				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	16.9	22.7	85	114	60-140	29				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	14.2	21.8	71	109	60-140	42	R1			
1,2-Dichlorobenzene	ug/L	ND	20	20	15.2	21.2	76	106	60-140	33	R1			
1,2-Dichloroethane	ug/L	ND	20	20	14.3	20.6	71	103	60-140	36	R1			
1,2-Dichloropropane	ug/L	ND	20	20	15.5	22.4	78	112	60-140	36	R1			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	14.8	21.4	74	107	60-140	37	R1			
1,3-Dichlorobenzene	ug/L	ND	20	20	15.5	21.7	77	109	60-140	34	R1			
1,3-Dichloropropane	ug/L	ND	20	20	14.8	21.8	74	109	60-140	38	R1			
1,4-Dichlorobenzene	ug/L	ND	20	20	14.7	20.7	74	103	60-140	33	R1			
2,2-Dichloropropane	ug/L	ND	20	20	16.1	24.0	80	120	60-140	39	R1			
2-Chlorotoluene	ug/L	ND	20	20	15.1	21.9	76	109	60-140	36	R1			
4-Chlorotoluene	ug/L	ND	20	20	14.5	20.9	72	104	60-140	36	R1			
Benzene	ug/L	ND	20	20	14.6	21.9	73	109	60-140	40	R1			
Bromobenzene	ug/L	ND	20	20	15.3	22.1	76	111	60-140	37	R1			
Bromochloromethane	ug/L	ND	20	20	14.9	21.9	74	110	60-140	38	R1			
Bromodichloromethane	ug/L	ND	20	20	15.1	21.8	75	109	60-140	37	R1			
Bromoform	ug/L	ND	20	20	13.4	20.2	67	101	60-140	40	R1			
Bromomethane	ug/L	ND	20	20	20.5	27.8	103	139	60-140	30				
Carbon tetrachloride	ug/L	ND	20	20	16.8	24.9	84	124	60-140	39	R1			
Chlorobenzene	ug/L	ND	20	20	15.7	22.9	78	115	60-140	37	R1			
Chloroethane	ug/L	ND	20	20	14.7	22.4	73	112	60-140	41	R1			
Chloroform	ug/L	0.50	20	20	15.7	21.7	76	106	60-140	32	R1			
Chloromethane	ug/L	ND	20	20	13.4	19.6	67	98	60-140	38	R1			
cis-1,2-Dichloroethene	ug/L	ND	20	20	14.0	20.4	70	102	60-140	37	R1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.1	23.2	81	116	60-140	36	R1			
Dibromochloromethane	ug/L	ND	20	20	15.3	22.9	77	114	60-140	39	R1			
Dibromomethane	ug/L	ND	20	20	15.3	23.4	76	117	60-140	42	R1			
Dichlorodifluoromethane	ug/L	ND	20	20	14.6	21.1	73	105	60-140	36	R1			
Diisopropyl ether	ug/L	ND	20	20	13.3	19.4	67	97	60-140	37	R1			
Ethylbenzene	ug/L	ND	20	20	15.2	22.3	76	111	60-140	38	R1			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.6	26.6	98	133	60-140	30				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	15.5	22.6	77	113	60-140	37	R1			
m&p-Xylene	ug/L	ND	40	40	31.2	45.2	78	113	60-140	37	R1			
Methyl-tert-butyl ether	ug/L	ND	20	20	14.3	20.2	72	101	60-140	34	R1			
Methylene Chloride	ug/L	ND	20	20	13.4	19.8	67	99	60-140	39	R1			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

Parameter	92525131001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	15.6	21.9	78	110	60-140	33	R1			
n-Propylbenzene	ug/L	ND	20	20	15.3	21.9	77	109	60-140	35	R1			
Naphthalene	ug/L	ND	20	20	16.7	20.8	84	104	60-140	22				
o-Xylene	ug/L	ND	20	20	14.7	22.4	73	112	60-140	41	R1			
sec-Butylbenzene	ug/L	ND	20	20	15.4	21.8	77	109	60-140	34	R1			
Styrene	ug/L	ND	20	20	15.0	22.1	75	111	60-140	38	R1			
tert-Butylbenzene	ug/L	ND	20	20	13.6	19.4	68	97	60-140	36	R1			
Tetrachloroethene	ug/L	ND	20	20	16.0	23.8	80	119	60-140	39	R1			
Toluene	ug/L	ND	20	20	14.7	22.3	74	112	60-140	41	R1			
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.1	22.2	76	111	60-140	38	R1			
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.3	23.1	77	116	60-140	40	R1			
Trichloroethene	ug/L	ND	20	20	16.2	23.6	81	118	60-140	37	R1			
Trichlorofluoromethane	ug/L	ND	20	20	16.2	23.4	81	117	60-140	36	R1			
Vinyl chloride	ug/L	ND	20	20	13.9	20.1	69	101	60-140	37	R1			
1,2-Dichloroethane-d4 (S)	%						94	95	70-130					
4-Bromofluorobenzene (S)	%						97	100	70-130					
Toluene-d8 (S)	%						97	98	70-130					

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

QC Batch: 603734 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525144001

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525144001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

METHOD BLANK: 3180666

Matrix: Water

Associated Lab Samples: 92525144001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

Parameter	92525135001		MS	MSD	3180668		3180669		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5		
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	22.2	110	111	60-140	1		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	22.6	108	113	60-140	5		
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	22.0	108	110	60-140	1		
1,1-Dichloroethane	ug/L	ND	20	20	21.2	21.1	106	105	60-140	0		
1,1-Dichloroethene	ug/L	ND	20	20	22.9	22.8	114	114	60-140	0		
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.5	22.3	108	112	60-140	4		
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	22.5	107	113	60-140	5		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3		
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2		
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1		
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1		
1,3-Dichlorobenzene	ug/L	ND	20	20	21.7	21.3	109	107	60-140	2		
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1		
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	20.7	109	103	60-140	5		
2,2-Dichloropropane	ug/L	ND	20	20	23.4	22.9	117	115	60-140	2		
2-Chlorotoluene	ug/L	ND	20	20	21.7	21.4	108	107	60-140	1		
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2		
Benzene	ug/L	ND	20	20	22.0	22.0	110	110	60-140	0		
Bromobenzene	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4		
Bromochloromethane	ug/L	ND	20	20	22.2	22.1	111	110	60-140	1		
Bromodichloromethane	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2		
Bromoform	ug/L	ND	20	20	17.5	18.4	87	92	60-140	5		
Bromomethane	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2		
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.8	113	119	60-140	5		
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	106	109	60-140	2		
Chloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1		
Chloroform	ug/L	ND	20	20	20.7	21.1	103	105	60-140	2		
Chloromethane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4		
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1		
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.1	22.9	111	115	60-140	4		
Dibromochloromethane	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2		
Dibromomethane	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0		
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3		
Diisopropyl ether	ug/L	ND	20	20	18.5	18.9	93	95	60-140	2		
Ethylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	60-140	2		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1		
m&p-Xylene	ug/L	ND	40	40	43.3	44.6	108	111	60-140	3		
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3		
Methylene Chloride	ug/L	ND	20	20	17.9	17.9	89	90	60-140	1		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Parameter	Units	3180668		3180669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525135001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3		
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4		
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0		
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0		
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2		
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3		
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3		
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0		
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2		
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3		
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5		
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0		
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3		
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5		
1,2-Dichloroethane-d4 (S)	%							96	96	70-130		
4-Bromofluorobenzene (S)	%							100	102	70-130		
Toluene-d8 (S)	%							97	100	70-130		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

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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.

### ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525144001	DUP-1	MADEPV	1629754	MADEP VPH	1629754
92525144002	FB-1	MADEPV	1629754	MADEP VPH	1629754
92525144001	DUP-1	EPA 3010A	603744	EPA 6010D	603765
92525144002	FB-1	EPA 3010A	603744	EPA 6010D	603765
92525144001	DUP-1	SM 6200B	603734		
92525144002	FB-1	SM 6200B	603733		
92525144003	Trip Blank	SM 6200B	603733		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY: Affix Workorder/Lo...  
MTIL Log-in Number Here  
92525144



Order Number or  
date

Company: *Pace Companies*  
Address: *Pace Companies*

Report To: *Andrew Strud*  
Copy To: *Andrew Strud*  
Email To: *Andrew.Strud@pace.com*  
Site Collection Info/Address:

Customer Project Name/Number: *2020-0-2448 Trucking*  
Phone: *703-441-2448*  
Email: *Andrew.Strud@pace.com*

Collected By (Print): *Admitti Trk*  
Collected By (Signature): *Admitti Trk*  
Sample Disposal:  Same Day  Next Day  
 Archive:  2 Day  3 Day  4 Day  5 Day  
 Hold: \_\_\_\_\_

Turnaround Date Required: *ASAP*  
Rush:  Same Day  Next Day  
 2 Day  3 Day  4 Day  5 Day  
Expedite Charges Apply

Quote #: \_\_\_\_\_  
Purchase Order #: \_\_\_\_\_  
DW PWS ID #: \_\_\_\_\_  
DW Location Code: \_\_\_\_\_  
Immediately Packed on Ice:  Yes  No

Field Filtered (if applicable):  Yes  No  
Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
<i>DUP-1</i>	<i>DW</i>	<i>G</i>	<i>3/22/17</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>8</i>	<i>X</i>
<i>FB-1</i>	<i>OT</i>	<i>G</i>	<i>01</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>8</i>	<i>X</i>
<i>Trp Blank</i>	<i>OT</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2</i>	<i>X</i>

Customer Remarks / Special Conditions / Possible Hazards:

LAB USE ONLY: Analyzes  
Container Pre  
\*\*Preservative Types: (1) nitril, (6) methanol, (7) sodium bisulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other  
A  
92525144

Lab Sample Receipt Checklist:

Custody Seals Present/Intact  Y  N  
Custody Signatures Present  Y  N  
Collector Signatures Present  Y  N  
Bottles Intact  Y  N  
Correct Bottles  Y  N  
Sufficient Volume  Y  N  
VOA - Headspace Acceptable  Y  N  
USDA Regulated Soils  Y  N  
Samples in Holding Time  Y  N  
Residual Chlorine Present  Y  N  
Cl Strips:  Y  N  
Sample pH Acceptable  Y  N  
pH Strips:  Y  N  
Sulfide Present  Y  N  
Lead Acetate Strips:  Y  N

LAB USE ONLY: Lab Sample # / Comments: *001*  
*002*  
*003*  
*92525144*

SHORT HOLDS PRESENT (<72 hours):  Y  N  NA  
Type of Ice Used:  Wet  Blue  Dry  None  
Packing Material Used: *BB*  
Radchem sample(s) screened (<500 cpm):  Y  N  NA  
Lab Tracking #: *2616162*  
Samples received via:  FEDEX  UPS  Client  
Date/Time: *3/22/17 1705*  
Courier: *MTIL LAB USE ONLY*

Lab Sample Temperature Info:  
Temp Blank Received: *92525144* N NA  
Therm ID#: *92525144*  
Cooler 1 Temp Upon Receipt: *11* oc  
Cooler 1 Therm Corr Factor: *0.0* oc  
Cooler 1 Corrected Temp: *11* oc  
Comments:

Relinquished by/Company: (Signature) *Norman Strud* Date/Time: *3-22-17 1705*  
Received by/Company: (Signature) *Andrew Strud* Date/Time: *3-22-17 1705*

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_



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

Project #

**W0# : 92525144**

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

PM: AMB Due Date: 03/09/21  
 CLIENT: 92-APEX MOOR

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

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 Na2SO3 (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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/
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).

March 02, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523576

Dear Andrew Street:

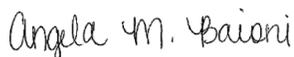
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523576

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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 Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

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

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 ANALYTE COUNT

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523576

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523576001	13926B_HC_RD_20210223	MADEP VPH	JHH	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523576

**Sample:** 13926B\_HC\_RD\_20210223    **Lab ID:** 92523576001    Collected: 02/23/21 12:05    Received: 02/23/21 13:35    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/28/21 03:47	02/28/21 03:47		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/28/21 03:47	02/28/21 03:47		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/28/21 03:47	02/28/21 03:47	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/28/21 03:47	02/28/21 03:47	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	104	%	70.0-130	1	02/28/21 03:47	02/28/21 03:47	615-59-8FID	
2,5-Dibromotoluene (PID)	105	%	70.0-130	1	02/28/21 03:47	02/28/21 03:47	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/24/21 02:09	02/28/21 22:22	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/24/21 04:18	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/24/21 04:18	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/24/21 04:18	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/24/21 04:18	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/24/21 04:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/24/21 04:18	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:18	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:18	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:18	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/24/21 04:18	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/24/21 04:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/21 04:18	75-00-3	
Chloroform	9.3	ug/L	0.50	1		02/24/21 04:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/21 04:18	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 04:18	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 04:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/24/21 04:18	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/24/21 04:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/24/21 04:18	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/24/21 04:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/24/21 04:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/24/21 04:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/24/21 04:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:18	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523576

**Sample:** 13926B\_HC\_RD\_20210223    **Lab ID:** 92523576001    Collected: 02/23/21 12:05    Received: 02/23/21 13:35    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:18	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/24/21 04:18	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/24/21 04:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/24/21 04:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/24/21 04:18	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/24/21 04:18	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/24/21 04:18	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/24/21 04:18	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/24/21 04:18	103-65-1	
Styrene	ND	ug/L	0.50	1		02/24/21 04:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 04:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 04:18	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/24/21 04:18	127-18-4	
Toluene	ND	ug/L	0.50	1		02/24/21 04:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 04:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 04:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/24/21 04:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/24/21 04:18	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/24/21 04:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/21 04:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/24/21 04:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 04:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 04:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/24/21 04:18	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/24/21 04:18	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/24/21 04:18	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		02/24/21 04:18	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		02/24/21 04:18	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		02/24/21 04:18	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523576

QC Batch: 1626945

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92523576001

METHOD BLANK: R3626445-3

Matrix: Water

Associated Lab Samples: 92523576001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/27/21 12:57	
Aliphatic (C09-C12)	ug/L	ND	100	02/27/21 12:57	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/27/21 12:57	
Total VPH	ug/L	ND	100	02/27/21 12:57	
2,5-Dibromotoluene (FID)	%	95.2	70.0-130	02/27/21 12:57	
2,5-Dibromotoluene (PID)	%	96.8	70.0-130	02/27/21 12:57	

LABORATORY CONTROL SAMPLE & LCSD: R3626445-1 R3626445-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1290	1290	107	107	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1670	1650	119	118	70.0-130	1.20	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	246	248	123	124	70.0-130	0.810	25	
Total VPH	ug/L	2800	3210	3190	115	114	70.0-130	0.625	25	
2,5-Dibromotoluene (FID)	%				102	105	70.0-130			
2,5-Dibromotoluene (PID)	%				104	107	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523576

QC Batch: 602104	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523576001

METHOD BLANK: 3172642 Matrix: Water  
Associated Lab Samples: 92523576001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/28/21 21:13	

LABORATORY CONTROL SAMPLE: 3172643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172644 3172645

Parameter	Units	92523735020		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1		

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523576

QC Batch: 602003

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523576001

METHOD BLANK: 3172101

Matrix: Water

Associated Lab Samples: 92523576001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
2,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
2-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
4-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
Benzene	ug/L	ND	0.50	02/24/21 00:42	
Bromobenzene	ug/L	ND	0.50	02/24/21 00:42	
Bromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromodichloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromoform	ug/L	ND	0.50	02/24/21 00:42	
Bromomethane	ug/L	ND	5.0	02/24/21 00:42	
Carbon tetrachloride	ug/L	ND	0.50	02/24/21 00:42	
Chlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
Chloroethane	ug/L	ND	1.0	02/24/21 00:42	
Chloroform	ug/L	ND	0.50	02/24/21 00:42	
Chloromethane	ug/L	ND	1.0	02/24/21 00:42	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Dibromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Dibromomethane	ug/L	ND	0.50	02/24/21 00:42	
Dichlorodifluoromethane	ug/L	ND	0.50	02/24/21 00:42	
Diisopropyl ether	ug/L	ND	0.50	02/24/21 00:42	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT  
Pace Project No.: 92523576

METHOD BLANK: 3172101 Matrix: Water  
Associated Lab Samples: 92523576001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/24/21 00:42	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/24/21 00:42	
m&p-Xylene	ug/L	ND	1.0	02/24/21 00:42	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/24/21 00:42	
Methylene Chloride	ug/L	ND	2.0	02/24/21 00:42	
n-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
n-Propylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Naphthalene	ug/L	ND	2.0	02/24/21 00:42	
o-Xylene	ug/L	ND	0.50	02/24/21 00:42	
sec-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Styrene	ug/L	ND	0.50	02/24/21 00:42	
tert-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Tetrachloroethene	ug/L	ND	0.50	02/24/21 00:42	
Toluene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Trichloroethene	ug/L	ND	0.50	02/24/21 00:42	
Trichlorofluoromethane	ug/L	ND	1.0	02/24/21 00:42	
Vinyl chloride	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dichloroethane-d4 (S)	%	99	70-130	02/24/21 00:42	
4-Bromofluorobenzene (S)	%	97	70-130	02/24/21 00:42	
Toluene-d8 (S)	%	101	70-130	02/24/21 00:42	

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	60-140	
1,1,2-Trichloroethane	ug/L	50	54.9	110	60-140	
1,1-Dichloroethane	ug/L	50	52.4	105	60-140	
1,1-Dichloroethene	ug/L	50	54.2	108	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.8	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.8	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	60-140	
1,2-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	56.7	113	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	60-140	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523576

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,3-Dichloropropane	ug/L	50	53.3	107	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	52.2	104	60-140	
2-Chlorotoluene	ug/L	50	51.1	102	60-140	
4-Chlorotoluene	ug/L	50	50.2	100	60-140	
Benzene	ug/L	50	53.9	108	60-140	
Bromobenzene	ug/L	50	51.1	102	60-140	
Bromochloromethane	ug/L	50	52.6	105	60-140	
Bromodichloromethane	ug/L	50	54.4	109	60-140	
Bromoform	ug/L	50	50.3	101	60-140	
Bromomethane	ug/L	50	52.1	104	60-140	
Carbon tetrachloride	ug/L	50	57.8	116	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	47.8	96	60-140	
Chloroform	ug/L	50	50.6	101	60-140	
Chloromethane	ug/L	50	43.1	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.3	115	60-140	
Dibromochloromethane	ug/L	50	56.5	113	60-140	
Dibromomethane	ug/L	50	55.8	112	60-140	
Dichlorodifluoromethane	ug/L	50	51.2	102	60-140	
Diisopropyl ether	ug/L	50	49.8	100	60-140	
Ethylbenzene	ug/L	50	52.0	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.5	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	48.6	97	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	49.7	99	60-140	
Naphthalene	ug/L	50	53.0	106	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	50.0	100	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	51.9	104	60-140	
Toluene	ug/L	50	53.3	107	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.3	117	60-140	
Trichloroethene	ug/L	50	55.5	111	60-140	
Trichlorofluoromethane	ug/L	50	47.6	95	60-140	
Vinyl chloride	ug/L	50	47.2	94	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			103	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523576

Parameter	9252357610		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.4	104	107	60-140	2				
1,1,1-Trichloroethane	ug/L	ND	20	20	20.6	20.9	103	104	60-140	1				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.3	19.5	97	98	60-140	1				
1,1,2-Trichloroethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0				
1,1-Dichloroethane	ug/L	ND	20	20	20.4	20.0	102	100	60-140	2				
1,1-Dichloroethene	ug/L	ND	20	20	21.9	21.1	110	106	60-140	4				
1,1-Dichloropropene	ug/L	ND	20	20	21.1	20.6	105	103	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.8	19.1	109	96	60-140	13				
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	19.4	96	97	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.1	19.7	106	98	60-140	7				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.7	19.0	99	95	60-140	4				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.9	21.3	115	106	60-140	7				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.2	20.6	101	103	60-140	2				
1,2-Dichlorobenzene	ug/L	ND	20	20	20.2	19.0	101	95	60-140	6				
1,2-Dichloroethane	ug/L	ND	20	20	19.4	19.5	97	98	60-140	1				
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.5	108	108	60-140	0				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.0	19.3	100	96	60-140	4				
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.5	101	97	60-140	4				
1,3-Dichloropropane	ug/L	ND	20	20	19.9	20.0	100	100	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	18.6	95	93	60-140	2				
2,2-Dichloropropane	ug/L	ND	20	20	22.3	21.3	111	107	60-140	4				
2-Chlorotoluene	ug/L	ND	20	20	20.0	19.7	100	98	60-140	2				
4-Chlorotoluene	ug/L	ND	20	20	19.5	19.3	98	97	60-140	1				
Benzene	ug/L	ND	20	20	20.6	20.1	103	101	60-140	2				
Bromobenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	7				
Bromochloromethane	ug/L	ND	20	20	20.3	19.8	102	99	60-140	2				
Bromodichloromethane	ug/L	ND	20	20	19.7	20.0	98	100	60-140	2				
Bromoform	ug/L	ND	20	20	17.8	18.0	89	90	60-140	2				
Bromomethane	ug/L	ND	20	20	20.8	21.2	104	106	60-140	2				
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.0	113	110	60-140	3				
Chlorobenzene	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1				
Chloroethane	ug/L	ND	20	20	18.3	17.7	91	89	60-140	3				
Chloroform	ug/L	ND	20	20	19.9	19.5	100	98	60-140	2				
Chloromethane	ug/L	ND	20	20	15.3	15.3	76	76	60-140	0				
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	19.2	102	96	60-140	6				
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2				
Dibromochloromethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2				
Dibromomethane	ug/L	ND	20	20	20.8	20.7	104	104	60-140	0				
Dichlorodifluoromethane	ug/L	ND	20	20	12.8	12.8	64	64	60-140	0				
Diisopropyl ether	ug/L	ND	20	20	19.5	19.3	98	96	60-140	1				
Ethylbenzene	ug/L	ND	20	20	20.0	19.8	100	99	60-140	1				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.5	22.9	123	115	60-140	7				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	20.0	101	100	60-140	1				
m&p-Xylene	ug/L	ND	40	40	41.0	40.9	102	102	60-140	0				
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	19.8	100	99	60-140	1				
Methylene Chloride	ug/L	ND	20	20	18.9	18.6	94	93	60-140	2				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523576

Parameter	92523527010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.0	19.6	105	98	60-140	7				
n-Propylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Naphthalene	ug/L	ND	20	20	21.2	19.1	106	95	60-140	11				
o-Xylene	ug/L	ND	20	20	19.7	19.6	99	98	60-140	1				
sec-Butylbenzene	ug/L	ND	20	20	20.8	19.9	104	99	60-140	5				
Styrene	ug/L	ND	20	20	19.8	20.1	99	101	60-140	2				
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.5	90	87	60-140	3				
Tetrachloroethene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2				
Toluene	ug/L	ND	20	20	20.7	20.5	104	102	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.0	21.2	105	106	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.8	20.8	109	104	60-140	4				
Trichloroethene	ug/L	ND	20	20	21.3	20.9	107	104	60-140	2				
Trichlorofluoromethane	ug/L	ND	20	20	20.0	20.5	100	102	60-140	3				
Vinyl chloride	ug/L	ND	20	20	16.8	16.7	84	84	60-140	0				
1,2-Dichloroethane-d4 (S)	%						99	97	70-130					
4-Bromofluorobenzene (S)	%						98	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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## QUALIFIERS

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523576

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 INCIDENT

Pace Project No.: 92523576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523576001	13926B_HC_RD_20210223	MADEPV	1626945	MADEP VPH	1626945
92523576001	13926B_HC_RD_20210223	EPA 3010A	602104	EPA 6010D	602118
92523576001	13926B_HC_RD_20210223	SM 6200B	602003		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder / MT  
ALL SHADED A  
Container Preservative Type \*\*

WO#: 92523576  
92523576

Company: Apex Companies  
Address:

Report To: Andrews Street  
Copy To:

Customer Project Name/Number: 2020-LI-2418 Incident

Phone: Site/Facility ID #: Purchase Order #: Quote #:

Collected By (print): Naomi Gutz  
Collected By (signature): Naomi Gutz

Sample Disposal: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Email To: Andrew.Street@apex.com  
Site Collection Info/Address: 13976B Huntersville, NC

State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Compliance Monitoring? [ ] Yes [ ] No  
DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [ ] Yes [ ] No  
Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: UGS 6268  
MADEP UPH  
lead

Lab Profile/Line:	Analyses	Short Holds Present (<72 hours):	Y	N	N/A
Custody Seals Present/Intact	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Custody Signatures Present	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Collector Signatures Present	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Bottles Intact	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Correct Bottles	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Sufficient Volume	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Samples Received on Ice	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
VOA - Headspace Acceptable	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
USDA Regulated Soils	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Samples in Holding Time	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Residual Chlorine Present	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
C1 Strips:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Sample pH Acceptable	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
pH Strips: 22381AV	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Sulfide Present	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
Lead Acetate Strips:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
LAB USE ONLY:					
Lab Sample # / Comments:	92523576				

Lab Sample Temperature Info:  
Temp Blank Received: Y  N   
Therm ID#: IR921064  
Cooler 1 Temp Upon Receipt: 4.5 oC  
Cooler 1 Therm Corr. Factor: 10 oC  
Cooler 1 Corrected Temp: 4.5 oC  
Comments:

Trip Blank Received: Y  N   
HCL MeOH TSP Other  
Non Conformance(s): YES  NO   
Page: of:

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A
Packing Material Used:	b. bags	Lab Tracking #: 2560696
Radchem sample(s) screened (<500 cpm):	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	Samples received via: Client Courier Pace Courier
Received by/Company: (Signature)	MDJ/See HU 2-23-21 13:35	FEDEX UPS
Received by/Company: (Signature)		Date/Time: 2-23-21 13:35
Received by/Company: (Signature)		Date/Time: 2-23-21 13:35
Received by/Company: (Signature)		Date/Time: 2-23-21 13:35

Lab Sample Receipt Checklist:  
Custody Seals Present/Intact Y  N   
Custody Signatures Present Y  N   
Collector Signatures Present Y  N   
Bottles Intact Y  N   
Correct Bottles Y  N   
Sufficient Volume Y  N   
Samples Received on Ice Y  N   
VOA - Headspace Acceptable Y  N   
USDA Regulated Soils Y  N   
Samples in Holding Time Y  N   
Residual Chlorine Present Y  N   
C1 Strips: Y  N   
Sample pH Acceptable Y  N   
pH Strips: 22381AV Y  N   
Sulfide Present Y  N   
Lead Acetate Strips: Y  N

March 02, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92523574

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523574

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523574

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523574001	Dup-1	MADEP VPH	JAH	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92523574002	FB-1	MADEP VPH	JAH	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92523574003	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92523574

Sample: Dup-1	Lab ID: 92523574001	Collected: 02/23/21 00:00	Received: 02/23/21 13:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/28/21 21:23	02/28/21 21:23		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/28/21 21:23	02/28/21 21:23		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/28/21 21:23	02/28/21 21:23	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/28/21 21:23	02/28/21 21:23	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	100	%	70.0-130	1	02/28/21 21:23	02/28/21 21:23	615-59-8FID	
2,5-Dibromotoluene (PID)	101	%	70.0-130	1	02/28/21 21:23	02/28/21 21:23	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/24/21 02:09	02/28/21 22:16	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/24/21 04:00	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/24/21 04:00	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/24/21 04:00	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/24/21 04:00	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/24/21 04:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/24/21 04:00	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:00	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:00	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:00	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/24/21 04:00	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/24/21 04:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/21 04:00	75-00-3	
Chloroform	9.7	ug/L	0.50	1		02/24/21 04:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/21 04:00	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 04:00	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 04:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/24/21 04:00	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/24/21 04:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/24/21 04:00	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/24/21 04:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/24/21 04:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/24/21 04:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/24/21 04:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:00	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92523574

Sample: Dup-1	Lab ID: 92523574001	Collected: 02/23/21 00:00	Received: 02/23/21 13:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:00	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/24/21 04:00	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/24/21 04:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/24/21 04:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/24/21 04:00	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/24/21 04:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/24/21 04:00	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/24/21 04:00	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/24/21 04:00	103-65-1	
Styrene	ND	ug/L	0.50	1		02/24/21 04:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 04:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 04:00	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/24/21 04:00	127-18-4	
Toluene	ND	ug/L	0.50	1		02/24/21 04:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 04:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 04:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/24/21 04:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/24/21 04:00	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/24/21 04:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/21 04:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/24/21 04:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 04:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 04:00	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/24/21 04:00	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/24/21 04:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/24/21 04:00	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		02/24/21 04:00	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		02/24/21 04:00	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/24/21 04:00	2037-26-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523574

Sample: FB-1	Lab ID: 92523574002	Collected: 02/23/21 00:00	Received: 02/23/21 13:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/28/21 21:56	02/28/21 21:56		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/28/21 21:56	02/28/21 21:56		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/28/21 21:56	02/28/21 21:56	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/28/21 21:56	02/28/21 21:56	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	103	%	70.0-130	1	02/28/21 21:56	02/28/21 21:56	615-59-8FID	
2,5-Dibromotoluene (PID)	105	%	70.0-130	1	02/28/21 21:56	02/28/21 21:56	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/24/21 02:09	02/28/21 22:19	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/24/21 01:00	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/24/21 01:00	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/24/21 01:00	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/24/21 01:00	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/24/21 01:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/24/21 01:00	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/24/21 01:00	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/24/21 01:00	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/24/21 01:00	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/24/21 01:00	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/24/21 01:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/21 01:00	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/24/21 01:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/21 01:00	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 01:00	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 01:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/24/21 01:00	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/24/21 01:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/24/21 01:00	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/24/21 01:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 01:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 01:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 01:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/24/21 01:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/24/21 01:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/24/21 01:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/24/21 01:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 01:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 01:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 01:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/24/21 01:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 01:00	594-20-7	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92523574

Sample: <b>FB-1</b>	Lab ID: <b>92523574002</b>	Collected: 02/23/21 00:00	Received: 02/23/21 13:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/24/21 01:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 01:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 01:00	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/24/21 01:00	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/24/21 01:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/24/21 01:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/24/21 01:00	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/24/21 01:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/24/21 01:00	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/24/21 01:00	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/24/21 01:00	103-65-1	
Styrene	ND	ug/L	0.50	1		02/24/21 01:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 01:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 01:00	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/24/21 01:00	127-18-4	
Toluene	ND	ug/L	0.50	1		02/24/21 01:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 01:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 01:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/24/21 01:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/24/21 01:00	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/24/21 01:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/21 01:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/24/21 01:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 01:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 01:00	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/24/21 01:00	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/24/21 01:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/24/21 01:00	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		02/24/21 01:00	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		02/24/21 01:00	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/24/21 01:00	2037-26-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92523574

Sample: Trip Blank		Lab ID: 92523574003	Collected: 02/23/21 00:00	Received: 02/23/21 13:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		02/24/21 01:18	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/24/21 01:18	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/24/21 01:18	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/24/21 01:18	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/24/21 01:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/24/21 01:18	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/24/21 01:18	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/24/21 01:18	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/24/21 01:18	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/24/21 01:18	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/24/21 01:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/21 01:18	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/24/21 01:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/21 01:18	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 01:18	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 01:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/24/21 01:18	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/24/21 01:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/24/21 01:18	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/24/21 01:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 01:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 01:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 01:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/24/21 01:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/24/21 01:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/24/21 01:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/24/21 01:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 01:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 01:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 01:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/24/21 01:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 01:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		02/24/21 01:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 01:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 01:18	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/24/21 01:18	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/24/21 01:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/24/21 01:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/24/21 01:18	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/24/21 01:18	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/24/21 01:18	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/24/21 01:18	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/24/21 01:18	103-65-1	
Styrene	ND	ug/L	0.50	1		02/24/21 01:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 01:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 01:18	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523574

Sample: Trip Blank		Lab ID: 92523574003	Collected: 02/23/21 00:00	Received: 02/23/21 13:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		02/24/21 01:18	127-18-4	
Toluene	ND	ug/L	0.50	1		02/24/21 01:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 01:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 01:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/24/21 01:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/24/21 01:18	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/24/21 01:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/21 01:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/24/21 01:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 01:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 01:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/24/21 01:18	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/24/21 01:18	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/24/21 01:18	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		02/24/21 01:18	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		02/24/21 01:18	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		02/24/21 01:18	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523574

QC Batch: 1627142	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92523574001, 92523574002

METHOD BLANK: R3626053-3 Matrix: Water

Associated Lab Samples: 92523574001, 92523574002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/28/21 15:03	
Aliphatic (C09-C12)	ug/L	ND	100	02/28/21 15:03	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/28/21 15:03	
Total VPH	ug/L	ND	100	02/28/21 15:03	
2,5-Dibromotoluene (FID)	%	93.5	70.0-130	02/28/21 15:03	
2,5-Dibromotoluene (PID)	%	93.9	70.0-130	02/28/21 15:03	

LABORATORY CONTROL SAMPLE & LCSD: R3626053-1 R3626053-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1360	1320	113	110	70.0-130	2.99	25	
Aliphatic (C09-C12)	ug/L	1400	1730	1710	124	122	70.0-130	1.16	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	256	249	128	124	70.0-130	2.77	25	
Total VPH	ug/L	2800	3350	3280	120	117	70.0-130	2.11	25	
2,5-Dibromotoluene (FID)	%				103	101	70.0-130			
2,5-Dibromotoluene (PID)	%				105	103	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92523574

QC Batch: 602104

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523574001, 92523574002

METHOD BLANK: 3172642

Matrix: Water

Associated Lab Samples: 92523574001, 92523574002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/28/21 21:13	

LABORATORY CONTROL SAMPLE: 3172643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172644 3172645

Parameter	Units	92523735020		3172645		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523574

QC Batch: 602003 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523574001, 92523574002, 92523574003

METHOD BLANK: 3172101 Matrix: Water

Associated Lab Samples: 92523574001, 92523574002, 92523574003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
2,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
2-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
4-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
Benzene	ug/L	ND	0.50	02/24/21 00:42	
Bromobenzene	ug/L	ND	0.50	02/24/21 00:42	
Bromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromodichloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromoform	ug/L	ND	0.50	02/24/21 00:42	
Bromomethane	ug/L	ND	5.0	02/24/21 00:42	
Carbon tetrachloride	ug/L	ND	0.50	02/24/21 00:42	
Chlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
Chloroethane	ug/L	ND	1.0	02/24/21 00:42	
Chloroform	ug/L	ND	0.50	02/24/21 00:42	
Chloromethane	ug/L	ND	1.0	02/24/21 00:42	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Dibromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Dibromomethane	ug/L	ND	0.50	02/24/21 00:42	
Dichlorodifluoromethane	ug/L	ND	0.50	02/24/21 00:42	
Diisopropyl ether	ug/L	ND	0.50	02/24/21 00:42	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523574

METHOD BLANK: 3172101 Matrix: Water  
Associated Lab Samples: 92523574001, 92523574002, 92523574003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/24/21 00:42	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/24/21 00:42	
m&p-Xylene	ug/L	ND	1.0	02/24/21 00:42	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/24/21 00:42	
Methylene Chloride	ug/L	ND	2.0	02/24/21 00:42	
n-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
n-Propylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Naphthalene	ug/L	ND	2.0	02/24/21 00:42	
o-Xylene	ug/L	ND	0.50	02/24/21 00:42	
sec-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Styrene	ug/L	ND	0.50	02/24/21 00:42	
tert-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Tetrachloroethene	ug/L	ND	0.50	02/24/21 00:42	
Toluene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Trichloroethene	ug/L	ND	0.50	02/24/21 00:42	
Trichlorofluoromethane	ug/L	ND	1.0	02/24/21 00:42	
Vinyl chloride	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dichloroethane-d4 (S)	%	99	70-130	02/24/21 00:42	
4-Bromofluorobenzene (S)	%	97	70-130	02/24/21 00:42	
Toluene-d8 (S)	%	101	70-130	02/24/21 00:42	

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	60-140	
1,1,2-Trichloroethane	ug/L	50	54.9	110	60-140	
1,1-Dichloroethane	ug/L	50	52.4	105	60-140	
1,1-Dichloroethene	ug/L	50	54.2	108	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.8	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.8	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	60-140	
1,2-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	56.7	113	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92523574

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,3-Dichloropropane	ug/L	50	53.3	107	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	52.2	104	60-140	
2-Chlorotoluene	ug/L	50	51.1	102	60-140	
4-Chlorotoluene	ug/L	50	50.2	100	60-140	
Benzene	ug/L	50	53.9	108	60-140	
Bromobenzene	ug/L	50	51.1	102	60-140	
Bromochloromethane	ug/L	50	52.6	105	60-140	
Bromodichloromethane	ug/L	50	54.4	109	60-140	
Bromoform	ug/L	50	50.3	101	60-140	
Bromomethane	ug/L	50	52.1	104	60-140	
Carbon tetrachloride	ug/L	50	57.8	116	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	47.8	96	60-140	
Chloroform	ug/L	50	50.6	101	60-140	
Chloromethane	ug/L	50	43.1	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.3	115	60-140	
Dibromochloromethane	ug/L	50	56.5	113	60-140	
Dibromomethane	ug/L	50	55.8	112	60-140	
Dichlorodifluoromethane	ug/L	50	51.2	102	60-140	
Diisopropyl ether	ug/L	50	49.8	100	60-140	
Ethylbenzene	ug/L	50	52.0	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.5	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	48.6	97	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	49.7	99	60-140	
Naphthalene	ug/L	50	53.0	106	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	50.0	100	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	51.9	104	60-140	
Toluene	ug/L	50	53.3	107	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.3	117	60-140	
Trichloroethene	ug/L	50	55.5	111	60-140	
Trichlorofluoromethane	ug/L	50	47.6	95	60-140	
Vinyl chloride	ug/L	50	47.2	94	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			103	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523574

Parameter	9252357010		MS	MSD	3172103		3172104		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.4	104	107	60-140	2		
1,1,1-Trichloroethane	ug/L	ND	20	20	20.6	20.9	103	104	60-140	1		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.3	19.5	97	98	60-140	1		
1,1,2-Trichloroethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0		
1,1-Dichloroethane	ug/L	ND	20	20	20.4	20.0	102	100	60-140	2		
1,1-Dichloroethene	ug/L	ND	20	20	21.9	21.1	110	106	60-140	4		
1,1-Dichloropropene	ug/L	ND	20	20	21.1	20.6	105	103	60-140	2		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.8	19.1	109	96	60-140	13		
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	19.4	96	97	60-140	2		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.1	19.7	106	98	60-140	7		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.7	19.0	99	95	60-140	4		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.9	21.3	115	106	60-140	7		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.2	20.6	101	103	60-140	2		
1,2-Dichlorobenzene	ug/L	ND	20	20	20.2	19.0	101	95	60-140	6		
1,2-Dichloroethane	ug/L	ND	20	20	19.4	19.5	97	98	60-140	1		
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.5	108	108	60-140	0		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.0	19.3	100	96	60-140	4		
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.5	101	97	60-140	4		
1,3-Dichloropropane	ug/L	ND	20	20	19.9	20.0	100	100	60-140	0		
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	18.6	95	93	60-140	2		
2,2-Dichloropropane	ug/L	ND	20	20	22.3	21.3	111	107	60-140	4		
2-Chlorotoluene	ug/L	ND	20	20	20.0	19.7	100	98	60-140	2		
4-Chlorotoluene	ug/L	ND	20	20	19.5	19.3	98	97	60-140	1		
Benzene	ug/L	ND	20	20	20.6	20.1	103	101	60-140	2		
Bromobenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	7		
Bromochloromethane	ug/L	ND	20	20	20.3	19.8	102	99	60-140	2		
Bromodichloromethane	ug/L	ND	20	20	19.7	20.0	98	100	60-140	2		
Bromoform	ug/L	ND	20	20	17.8	18.0	89	90	60-140	2		
Bromomethane	ug/L	ND	20	20	20.8	21.2	104	106	60-140	2		
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.0	113	110	60-140	3		
Chlorobenzene	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1		
Chloroethane	ug/L	ND	20	20	18.3	17.7	91	89	60-140	3		
Chloroform	ug/L	ND	20	20	19.9	19.5	100	98	60-140	2		
Chloromethane	ug/L	ND	20	20	15.3	15.3	76	76	60-140	0		
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	19.2	102	96	60-140	6		
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2		
Dibromochloromethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2		
Dibromomethane	ug/L	ND	20	20	20.8	20.7	104	104	60-140	0		
Dichlorodifluoromethane	ug/L	ND	20	20	12.8	12.8	64	64	60-140	0		
Diisopropyl ether	ug/L	ND	20	20	19.5	19.3	98	96	60-140	1		
Ethylbenzene	ug/L	ND	20	20	20.0	19.8	100	99	60-140	1		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.5	22.9	123	115	60-140	7		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	20.0	101	100	60-140	1		
m&p-Xylene	ug/L	ND	40	40	41.0	40.9	102	102	60-140	0		
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	19.8	100	99	60-140	1		
Methylene Chloride	ug/L	ND	20	20	18.9	18.6	94	93	60-140	2		

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: 2020-L1-2448 Incident  
Pace Project No.: 92523574

Parameter	92523527010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.0	19.6	105	98	60-140	7				
n-Propylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Naphthalene	ug/L	ND	20	20	21.2	19.1	106	95	60-140	11				
o-Xylene	ug/L	ND	20	20	19.7	19.6	99	98	60-140	1				
sec-Butylbenzene	ug/L	ND	20	20	20.8	19.9	104	99	60-140	5				
Styrene	ug/L	ND	20	20	19.8	20.1	99	101	60-140	2				
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.5	90	87	60-140	3				
Tetrachloroethene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2				
Toluene	ug/L	ND	20	20	20.7	20.5	104	102	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.0	21.2	105	106	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.8	20.8	109	104	60-140	4				
Trichloroethene	ug/L	ND	20	20	21.3	20.9	107	104	60-140	2				
Trichlorofluoromethane	ug/L	ND	20	20	20.0	20.5	100	102	60-140	3				
Vinyl chloride	ug/L	ND	20	20	16.8	16.7	84	84	60-140	0				
1,2-Dichloroethane-d4 (S)	%						99	97	70-130					
4-Bromofluorobenzene (S)	%						98	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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: 2020-L1-2448 Incident

Pace Project No.: 92523574

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92523574

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523574001	Dup-1	MADEPV	1627142	MADEP VPH	1627142
92523574002	FB-1	MADEPV	1627142	MADEP VPH	1627142
92523574001	Dup-1	EPA 3010A	602104	EPA 6010D	602118
92523574002	FB-1	EPA 3010A	602104	EPA 6010D	602118
92523574001	Dup-1	SM 6200B	602003		
92523574002	FB-1	SM 6200B	602003		
92523574003	Trip Blank	SM 6200B	602003		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB US  
WO#: 92523574  
92523574

Number or  
Contal

Company: Apex Companies  
Address: Andrew Street

Report To: Andrew Street  
Copy To: Andrew Street

Customer Project Name/Number: 2020-01-2448 Incident  
Site/Facility ID #: NC/Huntersville

State: NC County/City: Huntersville  
Time Zone Collected: PT | MT | CT | ET

Compliance Monitoring? [ ] Yes [ ] No  
DW PWS ID #: ASAP  
DW Location Code: ASAP

Turnaround Date Required: ASAP  
Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
(Expedite Charges Apply)

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold  
Analysis: \_\_\_\_\_

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
DUP-1	DW	G	2-23-21	-	8	8
FB-1	OT	G	-	-	8	8
Trip Blank	OT	-	-	-	2	2

Customer Remarks / Special Conditions / Possible Hazards: p. bags

Type of Ice Used: Wet Blue Dry None  
Packing Material Used: \_\_\_\_\_

Radchem sample(s) screened (<500 cpm): Y N (NA)

Date/Time: 2-23-21 1335 Received by/Company: (Signature) MVP Be HVL 2-23-21 13:38

Email To: Andrew.Street@apex.com  
Site Collection Info/Address: \_\_\_\_\_

State: NC County/City: Huntersville  
Time Zone Collected: PT | MT | CT | ET

Compliance Monitoring? [ ] Yes [ ] No  
DW PWS ID #: ASAP  
DW Location Code: ASAP

Turnaround Date Required: ASAP  
Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
(Expedite Charges Apply)

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold  
Analysis: \_\_\_\_\_

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
UCLs 6200B	Lead				X	X
MADEP UPT					X	X
					X	X

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used: Wet Blue Dry None  
Packing Material Used: \_\_\_\_\_

Radchem sample(s) screened (<500 cpm): Y N (NA)

Date/Time: 2-23-21 1335 Received by/Company: (Signature) MVP Be HVL 2-23-21 13:38

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

State: NC County/City: Huntersville  
Time Zone Collected: PT | MT | CT | ET

Compliance Monitoring? [ ] Yes [ ] No  
DW PWS ID #: ASAP  
DW Location Code: ASAP

Turnaround Date Required: ASAP  
Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
(Expedite Charges Apply)

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold  
Analysis: \_\_\_\_\_

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
2/23/21					X	X
601					X	X
602					X	X
603					X	X

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used: Wet Blue Dry None  
Packing Material Used: \_\_\_\_\_

Radchem sample(s) screened (<500 cpm): Y N (NA)

Date/Time: 2-23-21 1335 Received by/Company: (Signature) MVP Be HVL 2-23-21 13:38

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

State: NC County/City: Huntersville  
Time Zone Collected: PT | MT | CT | ET

Compliance Monitoring? [ ] Yes [ ] No  
DW PWS ID #: ASAP  
DW Location Code: ASAP

Turnaround Date Required: ASAP  
Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
(Expedite Charges Apply)

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold  
Analysis: \_\_\_\_\_

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
2/23/21					X	X
601					X	X
602					X	X
603					X	X

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used: Wet Blue Dry None  
Packing Material Used: \_\_\_\_\_

Radchem sample(s) screened (<500 cpm): Y N (NA)

Date/Time: 2-23-21 1335 Received by/Company: (Signature) MVP Be HVL 2-23-21 13:38

Lab Profile/Line: \_\_\_\_\_  
Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y (N) NA  
Custody Signatures Present (X) N NA  
Collector Signature Present (X) N NA  
Bottles Intact (X) N NA  
Correct Bottles (X) N NA  
Sufficient Volume (X) N NA  
Samples Received on Ice (X) N NA  
VOA - Headspace Acceptable (X) N NA  
USDA Regulated Soils (X) N NA  
Samples in Holding Time (X) N NA  
Residual Chlorine Present Y N (NA)

Cl Strips: \_\_\_\_\_  
Sample pH Acceptable (X) N NA  
pH Strips: 223819AV  
Sulfide Present Y N (NA)  
Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:  
Lab Sample # / Comments: 2/23/21 92523574

Lab Sample Temperature Info:	Temp Blank Received:	Therm ID#:	Cooler 1 Temp Upon Receipt:	Cooler 1 Therm Corr. Factor:	Cooler 1 Corrected Temp:
	<u>Y</u> <u>NA</u>	<u>58921064</u>	<u>4.5</u> <u>oC</u>	<u>4.0</u> <u>oC</u>	<u>4.5</u> <u>oC</u>

Comments: \_\_\_\_\_

Trip Blank Received: (X) N NA  
HCL MeOH TSP Other

Non Conformance(s): YES / (NO)  
Page: \_\_\_\_\_ of: \_\_\_\_\_

March 09, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92525136

Dear Andrew Street:

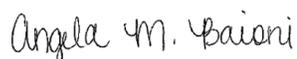
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525136

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92525136

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525136001	13926B_HC_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525136

**Sample: 13926B\_HC\_RD\_20210302**    **Lab ID: 92525136001**    Collected: 03/02/21 10:45    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 06:04	03/05/21 06:04		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 06:04	03/05/21 06:04		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 06:04	03/05/21 06:04	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 06:04	03/05/21 06:04	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	86.7	%	70.0-130	1	03/05/21 06:04	03/05/21 06:04	615-59-8FID	
2,5-Dibromotoluene (PID)	87.9	%	70.0-130	1	03/05/21 06:04	03/05/21 06:04	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 14:50	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 13:51	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 13:51	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 13:51	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 13:51	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 13:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 13:51	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 13:51	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 13:51	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 13:51	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 13:51	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 13:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 13:51	75-00-3	
Chloroform	7.8	ug/L	0.50	1		03/03/21 13:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 13:51	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 13:51	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 13:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 13:51	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 13:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 13:51	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 13:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 13:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 13:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 13:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 13:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 13:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 13:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 13:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 13:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 13:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 13:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 13:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 13:51	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525136

**Sample: 13926B\_HC\_RD\_20210302**    **Lab ID: 92525136001**    Collected: 03/02/21 10:45    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 13:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 13:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 13:51	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 13:51	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 13:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 13:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 13:51	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 13:51	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 13:51	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 13:51	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 13:51	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 13:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 13:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 13:51	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 13:51	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 13:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 13:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 13:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 13:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 13:51	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 13:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 13:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 13:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 13:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 13:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 13:51	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 13:51	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 13:51	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/03/21 13:51	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/03/21 13:51	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/03/21 13:51	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525136

QC Batch: 1629754	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525136001

METHOD BLANK: R3628624-2 Matrix: Water  
Associated Lab Samples: 92525136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

Parameter	Units	R3628624-1		R3628624-3		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130		
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525136

QC Batch: 603744

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525136001

METHOD BLANK: 3180706

Matrix: Water

Associated Lab Samples: 92525136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	470	468	94	94	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525136

QC Batch: 603734      Analysis Method: SM 6200B  
QC Batch Method: SM 6200B      Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525136001

METHOD BLANK: 3180666      Matrix: Water  
Associated Lab Samples: 92525136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525136

METHOD BLANK: 3180666

Matrix: Water

Associated Lab Samples: 92525136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525136

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525136

Parameter	92525135001		MS	MSD	3180668		3180669		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5		
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	22.2	110	111	60-140	1		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	22.6	108	113	60-140	5		
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	22.0	108	110	60-140	1		
1,1-Dichloroethane	ug/L	ND	20	20	21.2	21.1	106	105	60-140	0		
1,1-Dichloroethene	ug/L	ND	20	20	22.9	22.8	114	114	60-140	0		
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.5	22.3	108	112	60-140	4		
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	22.5	107	113	60-140	5		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3		
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2		
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1		
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1		
1,3-Dichlorobenzene	ug/L	ND	20	20	21.7	21.3	109	107	60-140	2		
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1		
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	20.7	109	103	60-140	5		
2,2-Dichloropropane	ug/L	ND	20	20	23.4	22.9	117	115	60-140	2		
2-Chlorotoluene	ug/L	ND	20	20	21.7	21.4	108	107	60-140	1		
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2		
Benzene	ug/L	ND	20	20	22.0	22.0	110	110	60-140	0		
Bromobenzene	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4		
Bromochloromethane	ug/L	ND	20	20	22.2	22.1	111	110	60-140	1		
Bromodichloromethane	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2		
Bromoform	ug/L	ND	20	20	17.5	18.4	87	92	60-140	5		
Bromomethane	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2		
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.8	113	119	60-140	5		
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	106	109	60-140	2		
Chloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1		
Chloroform	ug/L	ND	20	20	20.7	21.1	103	105	60-140	2		
Chloromethane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4		
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1		
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.1	22.9	111	115	60-140	4		
Dibromochloromethane	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2		
Dibromomethane	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0		
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3		
Diisopropyl ether	ug/L	ND	20	20	18.5	18.9	93	95	60-140	2		
Ethylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	60-140	2		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1		
m&p-Xylene	ug/L	ND	40	40	43.3	44.6	108	111	60-140	3		
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3		
Methylene Chloride	ug/L	ND	20	20	17.9	17.9	89	90	60-140	1		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525136

Parameter	Units	3180668		3180669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525135001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3		
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4		
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0		
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0		
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2		
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3		
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3		
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0		
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2		
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3		
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5		
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0		
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3		
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5		
1,2-Dichloroethane-d4 (S)	%							96	96	70-130		
4-Bromofluorobenzene (S)	%							100	102	70-130		
Toluene-d8 (S)	%							97	100	70-130		

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: 2020-L1-2448 Incident

Pace Project No.: 92525136

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525136

<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92525136001	13926B_HC_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525136001	13926B_HC_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525136001	13926B_HC_RD_20210302	SM 6200B	603734		

**REPORT OF LABORATORY ANALYSIS**

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**CHAIN-C**

**LAB ONLY - AP** **WO# : 92525136**

Company: **Apex Companies**  
 Address:

Chain Custody is a LEGAL DOCUMENT - Complete all relevant fields  
 Billing Information:

Container Press **92525136**

Report To: **Andrew Street**  
 Copy To:

Email To: **Andrew.Street@apexcos.com**  
 Site Collection Info/Address: **13926B Huntersville Concord Rd**

Lab Sample Receipt Checklist:

Customer Project Name/Number: **2020-41-2448 Incident**

State: **NC** County/City: **Huntersville** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

Lab Profile/Line:

Site/Facility ID #: **ASAP**

Purchase Order #: **ASAP**  
 Quote #:

Custody Seals Present/Intact **Y N NA**  
 Custody Signatures Present **Y N NA**  
 Collector Signatures Present **Y N NA**  
 Bottles Intact **Y N NA**  
 Correct Bottles **Y N NA**  
 Sufficient Volume **Y N NA**  
 Samples Received on Ice **Y N NA**  
 VOA - Headspace Acceptable **Y N NA**  
 USDA Regulated Soils **Y N NA**  
 Samples in Holding Time **Y N NA**  
 Residual Chlorine Present **Y N NA**  
 Cl. Strips: **Y N NA**  
 Sample pH Acceptable **Y N NA**  
 pH Strips: **Y N NA**  
 Sulfide Present **Y N NA**  
 Lead Acetate Strips: **Y N NA**

Collected By (print): **Naomi Fitz**

Turnaround Date Required: **ASAP**

Lab Sample Temperature Info:  
 Temp Blank Received: **Y N NA**  
 Therm ID#: **92054**  
 Cooler 1 Temp Upon Receipt: **1.1** °C  
 Cooler 1 Therm Corr. Factor: **0.0** °C  
 Cooler 1 Corrected Temp: **1.1** °C  
 Comments:

Sample Disposal: **[ ] Same Day [ ] Next Day**  
**[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day**  
 (Expedite Charges Apply)

Compliance Monitoring?  
 Yes  No

LAB USE ONLY:  
 Lab Sample # / Comments:  
**92525136**  
**001**

Customer Sample ID: **13926B-HC-RD-2021030**

Matrix \* **DW**

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Customer Remarks / Special Conditions / Possible Hazards:

Lab Tracking #: **2616170**

Collected (or Composite Start) Date Time **3-22-17 10:45**

Res CI **8**

Composite End Date Time

MTJIL LAB USE ONLY

Type of Ice Used: **Wet Blue Dry None**

Client: **UPS** Courier: **MTJIL** Pace Courier

Packing Material Used: **66**

Table #: **3201105**

Radchem sample(s) screened (<500 cpm): **Y N NA**

Accnum: **3201105**

Date/Time: **3-22-17 17:05**

Template: **00**

Received by/Company: (Signature) **Naomi Fitz / Apex**

Prelogin: **00**

Date/Time: **3-22-17 17:05**

PM: **00**

Received by/Company: (Signature) **Naomi Fitz / Apex**

PB: **00**

Date/Time: **3-22-17 17:05**

Non Conformance(s): **YES / NO**

Received by/Company: (Signature)

Trip Blank Received: **Y N NA**

Date/Time: **3-22-17 17:05**

Page: **15** of **15**

Date/Time: **3-22-17 17:05**

of: **00**



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

Project **W0# : 92525136**  
 PM: AMB Due Date: 03/09/21  
 CLIENT: 92-APEX MOOR

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

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

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 Na2SO3 (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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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).

March 09, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

Dear Andrew Street:

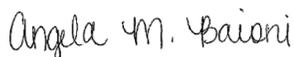
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### 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

### Pace Analytical Services Asheville

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525144001	DUP-1	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92525144002	FB-1	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92525144003	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Sample: DUP-1	Lab ID: 92525144001	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 03:19	03/05/21 03:19		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 03:19	03/05/21 03:19		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 03:19	03/05/21 03:19	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 03:19	03/05/21 03:19	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	88.3	%	70.0-130	1	03/05/21 03:19	03/05/21 03:19	615-59-8FID	
2,5-Dibromotoluene (PID)	93.4	%	70.0-130	1	03/05/21 03:19	03/05/21 03:19	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 15:10	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 15:02	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 15:02	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 15:02	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 15:02	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 15:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 15:02	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 15:02	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 15:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 15:02	75-00-3	
Chloroform	0.54	ug/L	0.50	1		03/03/21 15:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 15:02	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 15:02	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 15:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 15:02	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 15:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 15:02	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 15:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 15:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 15:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 15:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 15:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 15:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 15:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 15:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 15:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 15:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 15:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 15:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 15:02	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Sample: DUP-1	Lab ID: 92525144001	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 15:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 15:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 15:02	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 15:02	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 15:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 15:02	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 15:02	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 15:02	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 15:02	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 15:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 15:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 15:02	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 15:02	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 15:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 15:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 15:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 15:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 15:02	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 15:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 15:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 15:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 15:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 15:02	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 15:02	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 15:02	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/03/21 15:02	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/03/21 15:02	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/03/21 15:02	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Sample: <b>FB-1</b>	Lab ID: <b>92525144002</b>	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 03:52	03/05/21 03:52		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 03:52	03/05/21 03:52		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 03:52	03/05/21 03:52	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 03:52	03/05/21 03:52	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	86.2	%	70.0-130	1	03/05/21 03:52	03/05/21 03:52	615-59-8FID	
2,5-Dibromotoluene (PID)	89.2	%	70.0-130	1	03/05/21 03:52	03/05/21 03:52	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 15:13	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 12:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 12:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 12:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 12:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 12:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 12:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 12:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 12:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 12:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 12:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 12:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 12:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 12:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 12:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 12:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	594-20-7	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Sample: <b>FB-1</b>	Lab ID: <b>92525144002</b>	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 12:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 12:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 12:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 12:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 12:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 12:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 12:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 12:39	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 12:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 12:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 12:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 12:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 12:39	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/03/21 12:39	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		03/03/21 12:39	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/03/21 12:39	2037-26-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Sample: Trip Blank		Lab ID: 92525144003	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/03/21 12:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 12:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 12:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 12:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 12:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 12:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 12:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 12:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 12:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 12:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 12:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 12:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 12:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 12:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 12:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 12:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 12:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 12:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 12:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 12:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 12:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 12:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 12:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:21	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:21	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

Sample: Trip Blank		Lab ID: 92525144003	Collected: 03/02/21 00:00	Received: 03/02/21 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 12:21	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 12:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 12:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 12:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 12:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 12:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 12:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 12:21	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/03/21 12:21	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/03/21 12:21	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/03/21 12:21	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

QC Batch: 1629754	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525144001, 92525144002

METHOD BLANK: R3628624-2 Matrix: Water

Associated Lab Samples: 92525144001, 92525144002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

LABORATORY CONTROL SAMPLE & LCSD: R3628624-1 R3628624-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25	
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25	
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130			
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130			

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.

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

QC Batch: 603744	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525144001, 92525144002

METHOD BLANK: 3180706 Matrix: Water  
Associated Lab Samples: 92525144001, 92525144002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Lead	ug/L	ND	500	500	470	468	94	94	75-125	0			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

QC Batch: 603733 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525144002, 92525144003

METHOD BLANK: 3180662 Matrix: Water

Associated Lab Samples: 92525144002, 92525144003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 11:45	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 11:45	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 11:45	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 11:45	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 11:45	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 11:45	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 11:45	
Benzene	ug/L	ND	0.50	03/03/21 11:45	
Bromobenzene	ug/L	ND	0.50	03/03/21 11:45	
Bromochloromethane	ug/L	ND	0.50	03/03/21 11:45	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 11:45	
Bromoform	ug/L	ND	0.50	03/03/21 11:45	
Bromomethane	ug/L	ND	5.0	03/03/21 11:45	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 11:45	
Chlorobenzene	ug/L	ND	0.50	03/03/21 11:45	
Chloroethane	ug/L	ND	1.0	03/03/21 11:45	
Chloroform	ug/L	ND	0.50	03/03/21 11:45	
Chloromethane	ug/L	ND	1.0	03/03/21 11:45	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 11:45	
Dibromomethane	ug/L	ND	0.50	03/03/21 11:45	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 11:45	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 11:45	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

METHOD BLANK: 3180662

Matrix: Water

Associated Lab Samples: 92525144002, 92525144003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 11:45	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 11:45	
m&p-Xylene	ug/L	ND	1.0	03/03/21 11:45	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 11:45	
Methylene Chloride	ug/L	ND	2.0	03/03/21 11:45	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Naphthalene	ug/L	ND	2.0	03/03/21 11:45	
o-Xylene	ug/L	ND	0.50	03/03/21 11:45	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Styrene	ug/L	ND	0.50	03/03/21 11:45	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 11:45	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 11:45	
Toluene	ug/L	ND	0.50	03/03/21 11:45	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 11:45	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 11:45	
Trichloroethene	ug/L	ND	0.50	03/03/21 11:45	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 11:45	
Vinyl chloride	ug/L	ND	1.0	03/03/21 11:45	
1,2-Dichloroethane-d4 (S)	%	99	70-130	03/03/21 11:45	
4-Bromofluorobenzene (S)	%	96	70-130	03/03/21 11:45	
Toluene-d8 (S)	%	96	70-130	03/03/21 11:45	

LABORATORY CONTROL SAMPLE: 3180663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,1-Trichloroethane	ug/L	50	50.4	101	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.3	103	60-140	
1,1-Dichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethene	ug/L	50	50.4	101	60-140	
1,1-Dichloropropene	ug/L	50	48.5	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	49.5	99	60-140	
1,2,3-Trichloropropane	ug/L	50	49.7	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.3	103	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.6	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	60-140	
1,2-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,2-Dichloroethane	ug/L	50	47.8	96	60-140	
1,2-Dichloropropane	ug/L	50	50.5	101	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

LABORATORY CONTROL SAMPLE: 3180663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	48.4	97	60-140	
2,2-Dichloropropane	ug/L	50	53.0	106	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.5	95	60-140	
Benzene	ug/L	50	49.0	98	60-140	
Bromobenzene	ug/L	50	50.8	102	60-140	
Bromochloromethane	ug/L	50	49.9	100	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	49.1	98	60-140	
Bromomethane	ug/L	50	56.6	113	60-140	
Carbon tetrachloride	ug/L	50	53.7	107	60-140	
Chlorobenzene	ug/L	50	51.4	103	60-140	
Chloroethane	ug/L	50	44.6	89	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	38.5	77	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.2	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	60-140	
Dibromochloromethane	ug/L	50	55.0	110	60-140	
Dibromomethane	ug/L	50	54.0	108	60-140	
Dichlorodifluoromethane	ug/L	50	48.2	96	60-140	
Diisopropyl ether	ug/L	50	45.5	91	60-140	
Ethylbenzene	ug/L	50	49.7	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.0	112	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	60-140	
m&p-Xylene	ug/L	100	103	103	60-140	
Methyl-tert-butyl ether	ug/L	50	48.5	97	60-140	
Methylene Chloride	ug/L	50	44.2	88	60-140	
n-Butylbenzene	ug/L	50	49.7	99	60-140	
n-Propylbenzene	ug/L	50	47.6	95	60-140	
Naphthalene	ug/L	50	50.7	101	60-140	
o-Xylene	ug/L	50	50.1	100	60-140	
sec-Butylbenzene	ug/L	50	48.1	96	60-140	
Styrene	ug/L	50	51.7	103	60-140	
tert-Butylbenzene	ug/L	50	42.3	85	60-140	
Tetrachloroethene	ug/L	50	52.3	105	60-140	
Toluene	ug/L	50	49.2	98	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.8	110	60-140	
Trichloroethene	ug/L	50	53.0	106	60-140	
Trichlorofluoromethane	ug/L	50	47.0	94	60-140	
Vinyl chloride	ug/L	50	41.9	84	60-140	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3180664		3180665								
Parameter	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	RPD	Qual
		92525131001	Spike	Spike	MS							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	15.3	22.2	77	111	60-140	37	R1	
1,1,1-Trichloroethane	ug/L	ND	20	20	15.5	22.7	77	113	60-140	38	R1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	14.4	21.5	72	107	60-140	40	R1	
1,1,2-Trichloroethane	ug/L	ND	20	20	14.5	22.1	72	110	60-140	42	R1	
1,1-Dichloroethane	ug/L	ND	20	20	14.7	21.3	73	107	60-140	37	R1	
1,1-Dichloroethene	ug/L	ND	20	20	16.3	23.5	81	118	60-140	37	R1	
1,1-Dichloropropene	ug/L	ND	20	20	15.3	22.0	77	110	60-140	36	R1	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.9	20.9	84	105	60-140	21		
1,2,3-Trichloropropane	ug/L	ND	20	20	14.3	19.8	71	99	60-140	32	R1	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.6	22.1	83	111	60-140	28		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	15.6	21.1	78	106	60-140	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	16.9	22.7	85	114	60-140	29		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	14.2	21.8	71	109	60-140	42	R1	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.2	21.2	76	106	60-140	33	R1	
1,2-Dichloroethane	ug/L	ND	20	20	14.3	20.6	71	103	60-140	36	R1	
1,2-Dichloropropane	ug/L	ND	20	20	15.5	22.4	78	112	60-140	36	R1	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	14.8	21.4	74	107	60-140	37	R1	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.5	21.7	77	109	60-140	34	R1	
1,3-Dichloropropane	ug/L	ND	20	20	14.8	21.8	74	109	60-140	38	R1	
1,4-Dichlorobenzene	ug/L	ND	20	20	14.7	20.7	74	103	60-140	33	R1	
2,2-Dichloropropane	ug/L	ND	20	20	16.1	24.0	80	120	60-140	39	R1	
2-Chlorotoluene	ug/L	ND	20	20	15.1	21.9	76	109	60-140	36	R1	
4-Chlorotoluene	ug/L	ND	20	20	14.5	20.9	72	104	60-140	36	R1	
Benzene	ug/L	ND	20	20	14.6	21.9	73	109	60-140	40	R1	
Bromobenzene	ug/L	ND	20	20	15.3	22.1	76	111	60-140	37	R1	
Bromochloromethane	ug/L	ND	20	20	14.9	21.9	74	110	60-140	38	R1	
Bromodichloromethane	ug/L	ND	20	20	15.1	21.8	75	109	60-140	37	R1	
Bromoform	ug/L	ND	20	20	13.4	20.2	67	101	60-140	40	R1	
Bromomethane	ug/L	ND	20	20	20.5	27.8	103	139	60-140	30		
Carbon tetrachloride	ug/L	ND	20	20	16.8	24.9	84	124	60-140	39	R1	
Chlorobenzene	ug/L	ND	20	20	15.7	22.9	78	115	60-140	37	R1	
Chloroethane	ug/L	ND	20	20	14.7	22.4	73	112	60-140	41	R1	
Chloroform	ug/L	0.50	20	20	15.7	21.7	76	106	60-140	32	R1	
Chloromethane	ug/L	ND	20	20	13.4	19.6	67	98	60-140	38	R1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	14.0	20.4	70	102	60-140	37	R1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.1	23.2	81	116	60-140	36	R1	
Dibromochloromethane	ug/L	ND	20	20	15.3	22.9	77	114	60-140	39	R1	
Dibromomethane	ug/L	ND	20	20	15.3	23.4	76	117	60-140	42	R1	
Dichlorodifluoromethane	ug/L	ND	20	20	14.6	21.1	73	105	60-140	36	R1	
Diisopropyl ether	ug/L	ND	20	20	13.3	19.4	67	97	60-140	37	R1	
Ethylbenzene	ug/L	ND	20	20	15.2	22.3	76	111	60-140	38	R1	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.6	26.6	98	133	60-140	30		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	15.5	22.6	77	113	60-140	37	R1	
m&p-Xylene	ug/L	ND	40	40	31.2	45.2	78	113	60-140	37	R1	
Methyl-tert-butyl ether	ug/L	ND	20	20	14.3	20.2	72	101	60-140	34	R1	
Methylene Chloride	ug/L	ND	20	20	13.4	19.8	67	99	60-140	39	R1	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

Parameter	92525131001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	15.6	21.9	78	110	60-140	33	R1			
n-Propylbenzene	ug/L	ND	20	20	15.3	21.9	77	109	60-140	35	R1			
Naphthalene	ug/L	ND	20	20	16.7	20.8	84	104	60-140	22				
o-Xylene	ug/L	ND	20	20	14.7	22.4	73	112	60-140	41	R1			
sec-Butylbenzene	ug/L	ND	20	20	15.4	21.8	77	109	60-140	34	R1			
Styrene	ug/L	ND	20	20	15.0	22.1	75	111	60-140	38	R1			
tert-Butylbenzene	ug/L	ND	20	20	13.6	19.4	68	97	60-140	36	R1			
Tetrachloroethene	ug/L	ND	20	20	16.0	23.8	80	119	60-140	39	R1			
Toluene	ug/L	ND	20	20	14.7	22.3	74	112	60-140	41	R1			
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.1	22.2	76	111	60-140	38	R1			
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.3	23.1	77	116	60-140	40	R1			
Trichloroethene	ug/L	ND	20	20	16.2	23.6	81	118	60-140	37	R1			
Trichlorofluoromethane	ug/L	ND	20	20	16.2	23.4	81	117	60-140	36	R1			
Vinyl chloride	ug/L	ND	20	20	13.9	20.1	69	101	60-140	37	R1			
1,2-Dichloroethane-d4 (S)	%						94	95	70-130					
4-Bromofluorobenzene (S)	%						97	100	70-130					
Toluene-d8 (S)	%						97	98	70-130					

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

QC Batch: 603734	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525144001

METHOD BLANK: 3180666 Matrix: Water

Associated Lab Samples: 92525144001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

METHOD BLANK: 3180666

Matrix: Water

Associated Lab Samples: 92525144001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525144

Parameter	92525135001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5				
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	22.2	110	111	60-140	1				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	22.6	108	113	60-140	5				
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	22.0	108	110	60-140	1				
1,1-Dichloroethane	ug/L	ND	20	20	21.2	21.1	106	105	60-140	0				
1,1-Dichloroethene	ug/L	ND	20	20	22.9	22.8	114	114	60-140	0				
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.5	22.3	108	112	60-140	4				
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	22.5	107	113	60-140	5				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3				
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2				
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1				
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
1,3-Dichlorobenzene	ug/L	ND	20	20	21.7	21.3	109	107	60-140	2				
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1				
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	20.7	109	103	60-140	5				
2,2-Dichloropropane	ug/L	ND	20	20	23.4	22.9	117	115	60-140	2				
2-Chlorotoluene	ug/L	ND	20	20	21.7	21.4	108	107	60-140	1				
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2				
Benzene	ug/L	ND	20	20	22.0	22.0	110	110	60-140	0				
Bromobenzene	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4				
Bromochloromethane	ug/L	ND	20	20	22.2	22.1	111	110	60-140	1				
Bromodichloromethane	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2				
Bromoform	ug/L	ND	20	20	17.5	18.4	87	92	60-140	5				
Bromomethane	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2				
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.8	113	119	60-140	5				
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	106	109	60-140	2				
Chloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1				
Chloroform	ug/L	ND	20	20	20.7	21.1	103	105	60-140	2				
Chloromethane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4				
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1				
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.1	22.9	111	115	60-140	4				
Dibromochloromethane	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2				
Dibromomethane	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0				
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3				
Diisopropyl ether	ug/L	ND	20	20	18.5	18.9	93	95	60-140	2				
Ethylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	60-140	2				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1				
m&p-Xylene	ug/L	ND	40	40	43.3	44.6	108	111	60-140	3				
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3				
Methylene Chloride	ug/L	ND	20	20	17.9	17.9	89	90	60-140	1				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180668		3180669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525135001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3		
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4		
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0		
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0		
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2		
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3		
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3		
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0		
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2		
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3		
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5		
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0		
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3		
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5		
1,2-Dichloroethane-d4 (S)	%						96	96	70-130			
4-Bromofluorobenzene (S)	%						100	102	70-130			
Toluene-d8 (S)	%						97	100	70-130			

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

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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.

### ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92525144

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525144001	DUP-1	MADEPV	1629754	MADEP VPH	1629754
92525144002	FB-1	MADEPV	1629754	MADEP VPH	1629754
92525144001	DUP-1	EPA 3010A	603744	EPA 6010D	603765
92525144002	FB-1	EPA 3010A	603744	EPA 6010D	603765
92525144001	DUP-1	SM 6200B	603734		
92525144002	FB-1	SM 6200B	603733		
92525144003	Trip Blank	SM 6200B	603733		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Pace Companies

Billing Information:

Report To: Andrew Strud

Email To: holstein@pace.com

Customer Project Name/Number: 2020-02448 Trucking

State: NC County/City: Asheville Time Zone Collected: ET

Phone: \_\_\_\_\_ Site/Facility ID #: \_\_\_\_\_

Compliance Monitoring?  Yes  No

Collected By (Print): Admitti Trk

Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_

Sample Disposal:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Field Filtered (if applicable):  Yes  No

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analysis: \_\_\_\_\_

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
DUP-1	DW	G	3/22/17	-	-	-	-	8
FB-1	OT	G	01	-	-	-	-	8
Trp Blank	OT	-	-	-	-	-	-	2

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None

Lab Tracking #: 2616162

Radchem sample(s) screened (<5000 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N NA

Lab Sample Temperature Info: Temp Blank Received: 922864 N NA

Relinquished by/Company: (Signature) Norman Strud Date/Time: 3-22-17 1705

Samples received via: Client

Temp 1 Temp Upon Receipt: 11 oc

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Courier: Pace Courier

Temp 1 Temp Cor Factor: 0.0 oc

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

MTIL LAB USE ONLY

Temp 1 Temp Cor Factor: 1.1 oc

LAB USE ONLY - Affix Workorder/Log...  
 MTIL Log-in Number Here  
**W0# : 92525144**  
 A  
  
 92525144  
 Container Pre  
 \*\*Preservative Types: (1) nitril, (6) methanol, (7) sodium bisulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other \_\_\_\_\_  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USA Regulated Soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: \_\_\_\_\_ Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: \_\_\_\_\_ Y N NA  
 Sulfide Present \_\_\_\_\_ Y N NA  
 Lead Acetate Strips: \_\_\_\_\_ Y N NA  
 LAB USE ONLY:  
 Lab Sample # / Comments: 92525144  
001  
002  
003  
 Page: \_\_\_\_\_ of: \_\_\_\_\_



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

Project #

**W0# : 92525144**

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

PM: AMB Due Date: 03/09/21  
 CLIENT: 92-APEX MOOR

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

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 Na2SO3 (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																6												
2																6												
3																2												
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).

March 15, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92526624

Dear Andrew Street:

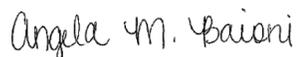
Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526624

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526624

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526624001	13926B_HC_RD_20210309	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526624

**Sample: 13926B\_HC\_RD\_20210309**    **Lab ID: 92526624001**    Collected: 03/09/21 11:35    Received: 03/09/21 17:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 21:00	03/12/21 21:00		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 21:00	03/12/21 21:00		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 21:00	03/12/21 21:00	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 21:00	03/12/21 21:00	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	99.2	%	70.0-130	1	03/12/21 21:00	03/12/21 21:00	615-59-8FID	
2,5-Dibromotoluene (PID)	95.3	%	70.0-130	1	03/12/21 21:00	03/12/21 21:00	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/12/21 02:20	03/12/21 16:11	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 03:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 03:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 03:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 03:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 03:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 03:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 03:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 03:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 03:37	75-00-3	
Chloroform	<b>9.3</b>	ug/L	0.50	1		03/12/21 03:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 03:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 03:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 03:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 03:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 03:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 03:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 03:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 03:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 03:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 03:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:37	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526624

**Sample: 13926B\_HC\_RD\_20210309**    **Lab ID: 92526624001**    Collected: 03/09/21 11:35    Received: 03/09/21 17:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 03:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 03:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 03:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 03:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 03:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 03:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 03:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 03:37	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 03:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 03:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 03:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 03:37	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 03:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 03:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 03:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 03:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 03:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 03:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 03:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 03:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 03:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 03:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 03:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 03:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 03:37	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		03/12/21 03:37	17060-07-0	
4-Bromofluorobenzene (S)	86	%	70-130	1		03/12/21 03:37	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		03/12/21 03:37	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526624

QC Batch: 1633636

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526624001

METHOD BLANK: R3630856-3

Matrix: Water

Associated Lab Samples: 92526624001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/12/21 08:56	
Aliphatic (C09-C12)	ug/L	ND	100	03/12/21 08:56	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/12/21 08:56	
Total VPH	ug/L	ND	100	03/12/21 08:56	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	03/12/21 08:56	
2,5-Dibromotoluene (PID)	%	90.8	70.0-130	03/12/21 08:56	

LABORATORY CONTROL SAMPLE & LCSD: R3630856-1 R3630856-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1310	1300	109	108	70.0-130	0.766	25	
Aliphatic (C09-C12)	ug/L	1400	1660	1640	119	117	70.0-130	1.21	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	229	226	115	113	70.0-130	1.32	25	
Total VPH	ug/L	2800	3200	3170	114	113	70.0-130	0.942	25	
2,5-Dibromotoluene (FID)	%				94.3	99.6	70.0-130			
2,5-Dibromotoluene (PID)	%				93.2	97.1	70.0-130			

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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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526624

QC Batch: 606129

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526624001

METHOD BLANK: 3193371

Matrix: Water

Associated Lab Samples: 92526624001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/12/21 15:10	

LABORATORY CONTROL SAMPLE: 3193372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193373

3193374

Parameter	Units	92526300006 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Lead	ug/L	ND	500	500	477	478	95	95	75-125	0	

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: 2020-L1-2448 Incident  
Pace Project No.: 92526624

QC Batch: 605982	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526624001

METHOD BLANK: 3192559 Matrix: Water

Associated Lab Samples: 92526624001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
Benzene	ug/L	ND	0.50	03/11/21 23:07	
Bromobenzene	ug/L	ND	0.50	03/11/21 23:07	
Bromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromoform	ug/L	ND	0.50	03/11/21 23:07	
Bromomethane	ug/L	ND	5.0	03/11/21 23:07	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 23:07	
Chlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
Chloroethane	ug/L	ND	1.0	03/11/21 23:07	
Chloroform	ug/L	ND	0.50	03/11/21 23:07	
Chloromethane	ug/L	ND	1.0	03/11/21 23:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Dibromomethane	ug/L	ND	0.50	03/11/21 23:07	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 23:07	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 23:07	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526624

METHOD BLANK: 3192559

Matrix: Water

Associated Lab Samples: 92526624001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 23:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 23:07	
m&p-Xylene	ug/L	ND	1.0	03/11/21 23:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 23:07	
Methylene Chloride	ug/L	ND	2.0	03/11/21 23:07	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Naphthalene	ug/L	ND	2.0	03/11/21 23:07	
o-Xylene	ug/L	ND	0.50	03/11/21 23:07	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Styrene	ug/L	ND	0.50	03/11/21 23:07	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 23:07	
Toluene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Trichloroethene	ug/L	ND	0.50	03/11/21 23:07	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 23:07	
Vinyl chloride	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/11/21 23:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/11/21 23:07	
Toluene-d8 (S)	%	100	70-130	03/11/21 23:07	

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	60-140	
1,1,1-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,2-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	46.5	93	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	46.6	93	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.9	88	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane	ug/L	50	46.7	93	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526624

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.3	93	60-140	
1,3-Dichloropropane	ug/L	50	48.1	96	60-140	
1,4-Dichlorobenzene	ug/L	50	44.5	89	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	47.5	95	60-140	
4-Chlorotoluene	ug/L	50	44.3	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	49.5	99	60-140	
Bromochloromethane	ug/L	50	51.3	103	60-140	
Bromodichloromethane	ug/L	50	46.9	94	60-140	
Bromoform	ug/L	50	47.7	95	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	54.3	109	60-140	
Chlorobenzene	ug/L	50	47.5	95	60-140	
Chloroethane	ug/L	50	44.7	89	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	37.6	75	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	60-140	
Dibromochloromethane	ug/L	50	53.7	107	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	45.8	92	60-140	
Ethylbenzene	ug/L	50	45.5	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	60-140	
m&p-Xylene	ug/L	100	94.1	94	60-140	
Methyl-tert-butyl ether	ug/L	50	49.0	98	60-140	
Methylene Chloride	ug/L	50	45.2	90	60-140	
n-Butylbenzene	ug/L	50	42.1	84	60-140	
n-Propylbenzene	ug/L	50	44.4	89	60-140	
Naphthalene	ug/L	50	46.8	94	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	42.4	85	60-140	
Styrene	ug/L	50	48.8	98	60-140	
tert-Butylbenzene	ug/L	50	38.0	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	48.6	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	60-140	
Trichloroethene	ug/L	50	49.8	100	60-140	
Trichlorofluoromethane	ug/L	50	43.6	87	60-140	
Vinyl chloride	ug/L	50	40.1	80	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			106	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526624

Parameter	92526257003		MS	MSD	3192561		3192562		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	441	426	110	106	60-140	3			
1,1,1-Trichloroethane	ug/L	ND	400	400	439	437	110	109	60-140	0			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	420	400	105	100	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	400	400	427	400	107	100	60-140	6			
1,1-Dichloroethane	ug/L	ND	400	400	421	425	105	106	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	481	456	120	114	60-140	5			
1,1-Dichloropropene	ug/L	ND	400	400	416	421	104	105	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	327	356	82	89	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	400	400	394	378	99	95	60-140	4			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	346	361	86	90	60-140	4			
1,2,4-Trimethylbenzene	ug/L	148	400	400	537	531	97	96	60-140	1			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	424	409	106	102	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	449	416	112	104	60-140	8			
1,2-Dichlorobenzene	ug/L	ND	400	400	391	392	98	98	60-140	0			
1,2-Dichloroethane	ug/L	ND	400	400	402	411	101	103	60-140	2			
1,2-Dichloropropane	ug/L	ND	400	400	469	427	117	107	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	432	413	108	103	60-140	4			
1,3-Dichlorobenzene	ug/L	ND	400	400	410	401	103	100	60-140	2			
1,3-Dichloropropane	ug/L	ND	400	400	417	425	104	106	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	400	400	383	380	96	95	60-140	1			
2,2-Dichloropropane	ug/L	ND	400	400	355	358	89	89	60-140	1			
2-Chlorotoluene	ug/L	ND	400	400	411	417	103	104	60-140	1			
4-Chlorotoluene	ug/L	ND	400	400	399	382	100	96	60-140	4			
Benzene	ug/L	2140	400	400	2580	2600	111	114	60-140	1			
Bromobenzene	ug/L	ND	400	400	435	417	109	104	60-140	4			
Bromochloromethane	ug/L	ND	400	400	436	412	109	103	60-140	6			
Bromodichloromethane	ug/L	ND	400	400	419	405	105	101	60-140	4			
Bromoform	ug/L	ND	400	400	381	362	95	91	60-140	5			
Bromomethane	ug/L	ND	400	400	466	515	117	129	60-140	10			
Carbon tetrachloride	ug/L	ND	400	400	449	434	112	108	60-140	4			
Chlorobenzene	ug/L	ND	400	400	441	427	110	107	60-140	3			
Chloroethane	ug/L	ND	400	400	405	390	101	98	60-140	4			
Chloroform	ug/L	ND	400	400	438	424	109	106	60-140	3			
Chloromethane	ug/L	ND	400	400	366	367	92	92	60-140	0			
cis-1,2-Dichloroethene	ug/L	ND	400	400	406	409	101	102	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	433	421	108	105	60-140	3			
Dibromochloromethane	ug/L	ND	400	400	442	426	110	106	60-140	4			
Dibromomethane	ug/L	ND	400	400	442	444	110	111	60-140	1			
Dichlorodifluoromethane	ug/L	ND	400	400	404	390	101	97	60-140	4			
Diisopropyl ether	ug/L	227	400	400	627	627	100	100	60-140	0			
Ethylbenzene	ug/L	151	400	400	579	569	107	105	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	384	395	96	99	60-140	3			
Isopropylbenzene (Cumene)	ug/L	ND	400	400	429	410	107	103	60-140	5			
m&p-Xylene	ug/L	838	800	800	1750	1730	115	112	60-140	1			
Methyl-tert-butyl ether	ug/L	65.7	400	400	477	466	103	100	60-140	2			
Methylene Chloride	ug/L	ND	400	400	414	407	98	96	60-140	2			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526624

Parameter	92526257003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	369	356	92	89	60-140	4				
n-Propylbenzene	ug/L	ND	400	400	413	396	103	99	60-140	4				
Naphthalene	ug/L	155	400	400	394	411	60	64	60-140	4				
o-Xylene	ug/L	465	400	400	915	910	113	111	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	408	389	102	97	60-140	5				
Styrene	ug/L	ND	400	400	424	411	106	103	60-140	3				
tert-Butylbenzene	ug/L	ND	400	400	367	349	92	87	60-140	5				
Tetrachloroethene	ug/L	ND	400	400	421	414	105	104	60-140	2				
Toluene	ug/L	2440	400	400	2870	2880	109	109	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	400	400	424	418	106	104	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	400	400	417	413	104	103	60-140	1				
Trichloroethene	ug/L	ND	400	400	451	427	113	107	60-140	6				
Trichlorofluoromethane	ug/L	ND	400	400	446	440	112	110	60-140	1				
Vinyl chloride	ug/L	ND	400	400	405	404	101	101	60-140	0				
1,2-Dichloroethane-d4 (S)	%						98	97	70-130					
4-Bromofluorobenzene (S)	%						99	99	70-130					
Toluene-d8 (S)	%						99	97	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526624

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92526624

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526624001	13926B_HC_RD_20210309	MADEPV	1633636	MADEP VPH	1633636
92526624001	13926B_HC_RD_20210309	EPA 3010A	606129	EPA 6010D	606150
92526624001	13926B_HC_RD_20210309	SM 6200B	605982		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: *Apex Companies*

Address: *Andrew Street*

Report To: *Andrew Street*

Copy To: *13926 B Huntersville Concord NC*

Customer Project Name/Number: *2020-41-2448 Incident*

Phone: *704-261-1135*

Email: *Naomi Getz*

Collected By (print): *Naomi Getz*

Collected By (signature): *Naomi Getz*

Sample Disposal: *ASAP*

Turnaround Date Required: *ASAP*

Rush: *( ) Same Day ( ) Next Day*

( ) 2 Day ( ) 3 Day ( ) 4 Day ( ) 5 Day

(Expedite Charges Apply)

\* Matrix Codes (Insert in Matrix box below): Drinking Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: *13926B-NC-RD-2021034*

Matrix \* *DW*

Comp / Grab *G*

Collected (or Composite Start) Date *3-9-21 11:35*

Composite End Date

Res Cl

# of Ctns *8*

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: *bubble bags*

Radchem sample(s) screened (<500 cpm):  Y  N  NA

Received by/Company: (Signature) *Naomi Getz Apex*

Date/Time: *3-9-21 17:55*

Received by/Company: (Signature) *MTD PACE HVL*

Date/Time: *3-9-21 17:55*

Received by/Company: (Signature)

Date/Time:

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-in Number Here

ALL SHAI WO#: 92526624



\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) sodium bisulfate, (4) sodium hydroxide, (5) TSP, (6) ammonium hydroxide, (D) TSP, (U) Unpreserved

Container Preservative Type

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signatures Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VOA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

C1 Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: *23819AV*

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments: *92526624*

Lab Sample # *001*

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: *2615868*

Samples received via:  FEDEX  UPS  Client

Date/Time: *3/9/21 17:55*

Date/Time:

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: *92526624*

Cooler 1 Temp Upon Receipt: *23.8* oC

Cooler 1 Therm Corr. Factor: *0* oC

Cooler 1 Corrected Temp: *23.8* oC

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s):

YES (NO)

Page: of:

March 22, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92527878

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527878

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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

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 ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92527878

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527878001	13926B_HC_RD_20210316	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527878

**Sample:** 13926B\_HC\_RD\_20210316    **Lab ID:** 92527878001    Collected: 03/16/21 11:15    Received: 03/16/21 12:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/18/21 06:31		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/18/21 06:31		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/18/21 06:31		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/18/21 06:31		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	114	%	70-130	1		03/18/21 06:31	460-00-4	
4-Bromofluorobenzene (PID) (S)	108	%	70-130	1		03/18/21 06:31	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 16:09	03/18/21 22:43	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/19/21 20:59	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/19/21 20:59	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/19/21 20:59	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/19/21 20:59	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/19/21 20:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/19/21 20:59	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:59	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:59	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:59	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/19/21 20:59	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/19/21 20:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/19/21 20:59	75-00-3	
Chloroform	8.7	ug/L	0.50	1		03/19/21 20:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/19/21 20:59	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 20:59	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 20:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/19/21 20:59	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/19/21 20:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/19/21 20:59	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/19/21 20:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/19/21 20:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/19/21 20:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/19/21 20:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:59	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527878

**Sample:** 13926B\_HC\_RD\_20210316    **Lab ID:** 92527878001    Collected: 03/16/21 11:15    Received: 03/16/21 12:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:59	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/19/21 20:59	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/19/21 20:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/19/21 20:59	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/19/21 20:59	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/19/21 20:59	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/19/21 20:59	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/19/21 20:59	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/19/21 20:59	103-65-1	
Styrene	ND	ug/L	0.50	1		03/19/21 20:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 20:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 20:59	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/19/21 20:59	127-18-4	
Toluene	ND	ug/L	0.50	1		03/19/21 20:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 20:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 20:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/19/21 20:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/19/21 20:59	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/19/21 20:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/19/21 20:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/19/21 20:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 20:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 20:59	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/19/21 20:59	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/19/21 20:59	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/19/21 20:59	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/19/21 20:59	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		03/19/21 20:59	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/19/21 20:59	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527878

QC Batch: 607250

Analysis Method: MADEP VPH

QC Batch Method: MADEP VPH

Analysis Description: VPH NC Water

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527878001

METHOD BLANK: 3199083

Matrix: Water

Associated Lab Samples: 92527878001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/17/21 15:18	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/17/21 15:18	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/17/21 15:18	N2
4-Bromofluorobenzene (FID) (S)	%	110	70-130	03/17/21 15:18	
4-Bromofluorobenzene (PID) (S)	%	104	70-130	03/17/21 15:18	

LABORATORY CONTROL SAMPLE & LCSD: 3199084

3199085

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	331	354	110	118	70-130	7	25	N2
Aliphatic (C09-C12)	ug/L	300	349	357	116	119	70-130	2	25	N2
Aromatic (C09-C10)	ug/L	100	100	103	100	103	70-130	3	25	N2
4-Bromofluorobenzene (FID) (S)	%				108	115	70-130			
4-Bromofluorobenzene (PID) (S)	%				102	109	70-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527878

QC Batch: 607152

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92527878001

METHOD BLANK: 3198608

Matrix: Water

Associated Lab Samples: 92527878001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/18/21 22:07	

LABORATORY CONTROL SAMPLE: 3198609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198630 3198631

Parameter	Units	92527853001		3198631		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	499	498	99	99	75-125	0

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527878

QC Batch: 607961	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527878001

METHOD BLANK: 3202611 Matrix: Water

Associated Lab Samples: 92527878001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1-Dichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1-Dichloroethene	ug/L	ND	0.50	03/19/21 12:35	
1,1-Dichloropropene	ug/L	ND	0.50	03/19/21 12:35	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/19/21 12:35	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/19/21 12:35	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/19/21 12:35	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/19/21 12:35	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dichloropropane	ug/L	ND	0.50	03/19/21 12:35	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/19/21 12:35	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
1,3-Dichloropropane	ug/L	ND	0.50	03/19/21 12:35	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
2,2-Dichloropropane	ug/L	ND	0.50	03/19/21 12:35	
2-Chlorotoluene	ug/L	ND	0.50	03/19/21 12:35	
4-Chlorotoluene	ug/L	ND	0.50	03/19/21 12:35	
Benzene	ug/L	ND	0.50	03/19/21 12:35	
Bromobenzene	ug/L	ND	0.50	03/19/21 12:35	
Bromochloromethane	ug/L	ND	0.50	03/19/21 12:35	
Bromodichloromethane	ug/L	ND	0.50	03/19/21 12:35	
Bromoform	ug/L	ND	0.50	03/19/21 12:35	
Bromomethane	ug/L	ND	5.0	03/19/21 12:35	
Carbon tetrachloride	ug/L	ND	0.50	03/19/21 12:35	
Chlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
Chloroethane	ug/L	ND	1.0	03/19/21 12:35	
Chloroform	ug/L	ND	0.50	03/19/21 12:35	
Chloromethane	ug/L	ND	1.0	03/19/21 12:35	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 12:35	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 12:35	
Dibromochloromethane	ug/L	ND	0.50	03/19/21 12:35	
Dibromomethane	ug/L	ND	0.50	03/19/21 12:35	
Dichlorodifluoromethane	ug/L	ND	0.50	03/19/21 12:35	
Diisopropyl ether	ug/L	ND	0.50	03/19/21 12:35	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527878

METHOD BLANK: 3202611

Matrix: Water

Associated Lab Samples: 92527878001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/19/21 12:35	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/19/21 12:35	
m&p-Xylene	ug/L	ND	1.0	03/19/21 12:35	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/19/21 12:35	
Methylene Chloride	ug/L	ND	2.0	03/19/21 12:35	
n-Butylbenzene	ug/L	ND	0.50	03/19/21 12:35	
n-Propylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Naphthalene	ug/L	ND	2.0	03/19/21 12:35	
o-Xylene	ug/L	ND	0.50	03/19/21 12:35	
sec-Butylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Styrene	ug/L	ND	0.50	03/19/21 12:35	
tert-Butylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Tetrachloroethene	ug/L	ND	0.50	03/19/21 12:35	
Toluene	ug/L	ND	0.50	03/19/21 12:35	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 12:35	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 12:35	
Trichloroethene	ug/L	ND	0.50	03/19/21 12:35	
Trichlorofluoromethane	ug/L	ND	1.0	03/19/21 12:35	
Vinyl chloride	ug/L	ND	1.0	03/19/21 12:35	
1,2-Dichloroethane-d4 (S)	%	95	70-130	03/19/21 12:35	
4-Bromofluorobenzene (S)	%	94	70-130	03/19/21 12:35	
Toluene-d8 (S)	%	98	70-130	03/19/21 12:35	

LABORATORY CONTROL SAMPLE: 3202612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.7	93	60-140	
1,1,1-Trichloroethane	ug/L	50	43.3	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	44.0	88	60-140	
1,1,2-Trichloroethane	ug/L	50	45.9	92	60-140	
1,1-Dichloroethane	ug/L	50	43.2	86	60-140	
1,1-Dichloroethene	ug/L	50	45.5	91	60-140	
1,1-Dichloropropene	ug/L	50	44.3	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.2	94	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	60-140	
1,2,4-Trimethylbenzene	ug/L	50	44.8	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	46.2	92	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	46.2	92	60-140	
1,2-Dichlorobenzene	ug/L	50	47.5	95	60-140	
1,2-Dichloroethane	ug/L	50	40.2	80	60-140	
1,2-Dichloropropane	ug/L	50	44.1	88	60-140	
1,3,5-Trimethylbenzene	ug/L	50	44.4	89	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527878

LABORATORY CONTROL SAMPLE: 3202612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.5	97	60-140	
1,3-Dichloropropane	ug/L	50	44.3	89	60-140	
1,4-Dichlorobenzene	ug/L	50	48.6	97	60-140	
2,2-Dichloropropane	ug/L	50	45.6	91	60-140	
2-Chlorotoluene	ug/L	50	44.9	90	60-140	
4-Chlorotoluene	ug/L	50	44.6	89	60-140	
Benzene	ug/L	50	44.2	88	60-140	
Bromobenzene	ug/L	50	45.3	91	60-140	
Bromochloromethane	ug/L	50	46.8	94	60-140	
Bromodichloromethane	ug/L	50	42.7	85	60-140	
Bromoform	ug/L	50	46.0	92	60-140	
Bromomethane	ug/L	50	39.8	80	60-140	
Carbon tetrachloride	ug/L	50	47.9	96	60-140	
Chlorobenzene	ug/L	50	47.6	95	60-140	
Chloroethane	ug/L	50	44.4	89	60-140	
Chloroform	ug/L	50	44.2	88	60-140	
Chloromethane	ug/L	50	35.4	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	41.9	84	60-140	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	60-140	
Dibromochloromethane	ug/L	50	47.2	94	60-140	
Dibromomethane	ug/L	50	48.9	98	60-140	
Dichlorodifluoromethane	ug/L	50	45.7	91	60-140	
Diisopropyl ether	ug/L	50	39.4	79	60-140	
Ethylbenzene	ug/L	50	46.4	93	60-140	
Hexachloro-1,3-butadiene	ug/L	50	45.3	91	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.6	95	60-140	
m&p-Xylene	ug/L	100	93.4	93	60-140	
Methyl-tert-butyl ether	ug/L	50	42.3	85	60-140	
Methylene Chloride	ug/L	50	43.4	87	60-140	
n-Butylbenzene	ug/L	50	45.9	92	60-140	
n-Propylbenzene	ug/L	50	44.5	89	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	46.5	93	60-140	
sec-Butylbenzene	ug/L	50	45.4	91	60-140	
Styrene	ug/L	50	47.5	95	60-140	
tert-Butylbenzene	ug/L	50	38.2	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	46.8	94	60-140	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	60-140	
trans-1,3-Dichloropropene	ug/L	50	45.6	91	60-140	
Trichloroethene	ug/L	50	49.0	98	60-140	
Trichlorofluoromethane	ug/L	50	47.4	95	60-140	
Vinyl chloride	ug/L	50	41.5	83	60-140	
1,2-Dichloroethane-d4 (S)	%			93	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: 2020-L1-2448 Incident  
Pace Project No.: 92527878

Parameter	92527425008		MS	MSD	3202613		3202614		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4110	4170	103	104	60-140	2			
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4020	98	100	60-140	2			
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3930	4000	98	100	60-140	2			
1,1,2-Trichloroethane	ug/L	ND	4000	4000	4090	4120	102	103	60-140	1			
1,1-Dichloroethane	ug/L	ND	4000	4000	3770	3800	94	95	60-140	1			
1,1-Dichloroethene	ug/L	ND	4000	4000	4190	4210	105	105	60-140	1			
1,1-Dichloropropene	ug/L	ND	4000	4000	4000	4030	100	101	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	4080	4550	102	114	60-140	11			
1,2,3-Trichloropropane	ug/L	ND	4000	4000	4110	4370	103	109	60-140	6			
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	4310	4670	108	117	60-140	8			
1,2,4-Trimethylbenzene	ug/L	11100	4000	4000	15000	16600	99	138	60-140	10			
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	4070	4200	102	105	60-140	3			
1,2-Dibromoethane (EDB)	ug/L	ND	4000	4000	4080	4120	102	103	60-140	1			
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4240	4400	106	110	60-140	4			
1,2-Dichloroethane	ug/L	ND	4000	4000	3540	3570	88	89	60-140	1			
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3900	98	97	60-140	1			
1,3,5-Trimethylbenzene	ug/L	2940	4000	4000	6940	7440	100	113	60-140	7			
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4340	4490	108	112	60-140	3			
1,3-Dichloropropane	ug/L	ND	4000	4000	3920	4000	98	100	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4330	4490	108	112	60-140	4			
2,2-Dichloropropane	ug/L	ND	4000	4000	4130	4170	103	104	60-140	1			
2-Chlorotoluene	ug/L	ND	4000	4000	4560	4420	114	110	60-140	3			
4-Chlorotoluene	ug/L	ND	4000	4000	4040	4100	101	102	60-140	1			
Benzene	ug/L	7950	4000	4000	12000	12300	100	108	60-140	3			
Bromobenzene	ug/L	ND	4000	4000	4100	4140	103	103	60-140	1			
Bromochloromethane	ug/L	ND	4000	4000	4000	4010	100	100	60-140	0			
Bromodichloromethane	ug/L	ND	4000	4000	3720	3820	93	95	60-140	3			
Bromoform	ug/L	ND	4000	4000	3890	4030	97	101	60-140	4			
Bromomethane	ug/L	ND	4000	4000	3120	4120	78	103	60-140	27			
Carbon tetrachloride	ug/L	ND	4000	4000	4450	4430	111	111	60-140	1			
Chlorobenzene	ug/L	ND	4000	4000	4270	4340	107	108	60-140	1			
Chloroethane	ug/L	ND	4000	4000	5050	4990	126	125	60-140	1			
Chloroform	ug/L	ND	4000	4000	3650	3770	91	94	60-140	3			
Chloromethane	ug/L	ND	4000	4000	3070	3200	77	80	60-140	4			
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3680	3760	92	94	60-140	2			
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	4040	4090	101	102	60-140	1			
Dibromochloromethane	ug/L	ND	4000	4000	4080	4160	102	104	60-140	2			
Dibromomethane	ug/L	ND	4000	4000	4190	4320	105	108	60-140	3			
Dichlorodifluoromethane	ug/L	ND	4000	4000	4160	4230	104	106	60-140	2			
Diisopropyl ether	ug/L	ND	4000	4000	3340	3450	84	86	60-140	3			
Ethylbenzene	ug/L	4850	4000	4000	9040	9460	105	115	60-140	5			
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	4210	4660	105	116	60-140	10			
Isopropylbenzene (Cumene)	ug/L	413	4000	4000	4710	4850	107	111	60-140	3			
m&p-Xylene	ug/L	13700	8000	8000	22300	23400	108	121	60-140	5			
Methyl-tert-butyl ether	ug/L	ND	4000	4000	3760	3810	94	95	60-140	1			
Methylene Chloride	ug/L	ND	4000	4000	3780	3830	95	96	60-140	1			

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: 2020-L1-2448 Incident  
Pace Project No.: 92527878

Parameter	Units	92527425008		MS		MSD		3202613		3202614		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	RPD	
n-Butylbenzene	ug/L	ND	4000	4000	4000	5150	5520	129	138	60-140	7	
n-Propylbenzene	ug/L	ND	4000	4000	4000	5430	5710	136	143	60-140	5	M1
Naphthalene	ug/L	3570	4000	4000	4000	7380	8140	95	114	60-140	10	
o-Xylene	ug/L	5180	4000	4000	4000	9300	9820	103	116	60-140	5	
sec-Butylbenzene	ug/L	ND	4000	4000	4000	4420	4620	111	115	60-140	4	
Styrene	ug/L	ND	4000	4000	4000	4220	4300	105	108	60-140	2	
tert-Butylbenzene	ug/L	ND	4000	4000	4000	3560	3640	89	91	60-140	2	
Tetrachloroethene	ug/L	ND	4000	4000	4000	4320	4330	108	108	60-140	0	
Toluene	ug/L	7220	4000	4000	4000	11400	11500	104	108	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	4000	3860	4040	96	101	60-140	5	
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	4000	3930	4030	98	101	60-140	2	
Trichloroethene	ug/L	ND	4000	4000	4000	4380	4430	110	111	60-140	1	
Trichlorofluoromethane	ug/L	ND	4000	4000	4000	5000	5150	125	129	60-140	3	
Vinyl chloride	ug/L	ND	4000	4000	4000	3730	3840	93	96	60-140	3	
1,2-Dichloroethane-d4 (S)	%							95	92	70-130		
4-Bromofluorobenzene (S)	%							97	98	70-130		
Toluene-d8 (S)	%							99	98	70-130		

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: 2020-L1-2448 Incident

Pace Project No.: 92527878

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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.

### ANALYTE QUALIFIERS

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92527878

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92527878001	13926B_HC_RD_20210316	MADEP VPH	607250		
92527878001	13926B_HC_RD_20210316	EPA 3010A	607152	EPA 6010D	607431
92527878001	13926B_HC_RD_20210316	SM 6200B	607961		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Address: Andrew Street

Billing Information: Complete all relevant fields

Report To: Andrew Street Apex Companies

Site Collection Info/Address: 15926g Huntsville Concord

Customer Project Name/Number: 2020-11-2448 Incident

State: NC County/City: Huntsville Time Zone Collected: PT

Phone: 704-253-1234 Site/Facility ID #: 15926g

Collected By (print): Alanna Feltz Purchase Order #: ASAP

Collected By (signature): Alanna Turnaround Date Required: ASAP

Sample Disposal: ASAP Rush: ASAP

Matrix \* DW Comp / Grab G Collected for Composite Start Date 3/16/21 Composite End Date 11/15

Customer Sample ID: 13926g-HC-RD-20200316

Relinquished by/Company: (Signature) Alanna Date/Time: 3-16-21 12:55

LAB USE ONLY -  
MO#: 92527878



Container Preserved: ALL Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfite, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other   

Analyses: DOCs 6200B  
MADEP UPH  
Lead

Lab Profile/Line: 2615870

Lab Sample Receipt Checklist:   

Custody Seals Present / Intact: Y / N

Collector Signatures Present: Y / N

Bottles Intact: Y / N

Correct Bottles: Y / N

Sufficient Volume: Y / N

Samples Received on Ice: Y / N

VOA - Headspace acceptable: Y / N

USA Regulated Solids: Y / N

Samples in Holding Time: Y / N

Residual Chlorine Present: Y / N

CI Strips: Y / N

Sample pH Acceptable: Y / N

pH Strips: 2258144 Y / N

Sulfide Present: Y / N

Lead Acetate Strips: Y / N

or

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

Project #

**W0# : 92527878**

PM: AMB

Due Date: 03/23/21

CLIENT : 92-APEX MOOR

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

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

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)-S035 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																													
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.

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Pace Companies

Address: 7000

Report To: Andrew Street

Copy To: PC/Operations/Rel Conc

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTL Log-in Number Here

**ALL SHADED AREAS are for LAB USE ONLY**

Container Preservative Type:   

Lab Project Manager:   

Customer Project Name/Number: 2020-11-24/18 Inland

State: NC County/City: Wilmington Time Zone Collected: PT MT CT ET

Site/Collection Info/Address: PC/Operations/Rel Conc

Site/Collection Info/Address:   

Analyses:   

Lab Profile/line:   

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact: Y / N / NA
- Custody Signatures Present: Y / N / NA
- Collector Signature Present: Y / N / NA
- Bottles Intact: Y / N / NA
- Correct Bottles: Y / N / NA
- Sufficient Volume: Y / N / NA
- VOA - Headspace Acceptable: Y / N / NA
- USDA Regulated Soils: Y / N / NA
- Samples in Holding Time: Y / N / NA
- Residual Chlorine Present: Y / N / NA
- Cl Strips: Y / N / NA
- Sample pH Acceptable: Y / N / NA
- pH Strips: Y / N / NA
- Sulfide Present: Y / N / NA
- Lead Acetate Strips: Y / N / NA

Phone:   

Collected By (print): Adam Feltz

Quote #:   

Turnaround Date Required: ASAP

Sample Disposal:   

Dispose as appropriate |  Return

Archive:   

Hold:   

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact: Y / N / NA
- Custody Signatures Present: Y / N / NA
- Collector Signature Present: Y / N / NA
- Bottles Intact: Y / N / NA
- Correct Bottles: Y / N / NA
- Sufficient Volume: Y / N / NA
- VOA - Headspace Acceptable: Y / N / NA
- USDA Regulated Soils: Y / N / NA
- Samples in Holding Time: Y / N / NA
- Residual Chlorine Present: Y / N / NA
- Cl Strips: Y / N / NA
- Sample pH Acceptable: Y / N / NA
- pH Strips: Y / N / NA
- Sulfide Present: Y / N / NA
- Lead Acetate Strips: Y / N / NA

Site/Facility ID #:   

Purchase Order #:   

Compliance Monitoring?  Yes  No

DW PWS ID #:   

DW Location Code:   

Immediately Packed on Ice:  Yes  No

Field Filtered (if applicable):  Yes  No

Analysis:   

Lab Profile/line:   

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact: Y / N / NA
- Custody Signatures Present: Y / N / NA
- Collector Signature Present: Y / N / NA
- Bottles Intact: Y / N / NA
- Correct Bottles: Y / N / NA
- Sufficient Volume: Y / N / NA
- VOA - Headspace Acceptable: Y / N / NA
- USDA Regulated Soils: Y / N / NA
- Samples in Holding Time: Y / N / NA
- Residual Chlorine Present: Y / N / NA
- Cl Strips: Y / N / NA
- Sample pH Acceptable: Y / N / NA
- pH Strips: Y / N / NA
- Sulfide Present: Y / N / NA
- Lead Acetate Strips: Y / N / NA

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctrs
			Date	Time	Date	Time		
<u>131926A.HC.R.D.20210315</u>	<u>DW</u>	<u>G</u>	<u>3/16/21</u>	<u>11:15</u>				

Type of Ice Used:	Wet	Blue	Dry	None	SHORT HOLDS PRESENT (<72 hours):	Y	N	N/A
<u>  </u>								
<u>  </u>								
<u>  </u>								
<u>  </u>								

Customer Remarks / Special Conditions / Possible Hazards:   

Type of Ice Used:   

Packing Material Used:   

Radchem sample(s) screened (<500 ppm):    Y    N    NA

Lab Tracking #:   

Samples received via:    FEDEX    UPS    Client   

Courier:    Pace Courier

MTL LAB USE ONLY

Relinquished by/Company: (Signature)    Date/Time:   

Relinquished by/Company: (Signature)    Date/Time:   

Lab Sample Temperature Info:

Temp Blank Received:    Y /    N /    NA

Therm ID#:   

Cooler 1 Temp upon Receipt:    °C

Cooler 1 Therm Corr. Factor:    °C

Cooler 1 Corrected Temp:    °C

Relinquished by/Company: (Signature)    Date/Time:   

Relinquished by/Company: (Signature)    Date/Time:   

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact:    /    /
- Custody Signatures Present:    /    /
- Collector Signature Present:    /    /
- Bottles Intact:    /    /
- Correct Bottles:    /    /
- Sufficient Volume:    /    /
- VOA - Headspace Acceptable:    /    /
- USDA Regulated Soils:    /    /
- Samples in Holding Time:    /    /
- Residual Chlorine Present:    /    /
- Cl Strips:    /    /
- Sample pH Acceptable:    /    /
- pH Strips:    /    /
- Sulfide Present:    /    /
- Lead Acetate Strips:    /    /

March 09, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92525142

Dear Andrew Street:

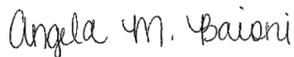
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525142

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92525142

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525142001	14000_LAWTHER_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525142

**Sample:** 14000\_LAWTHER\_RD\_202 **Lab ID:** 92525142001 **Collected:** 03/02/21 14:30 **Received:** 03/02/21 17:05 **Matrix:** Water  
**10302**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 04:25	03/05/21 04:25		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 04:25	03/05/21 04:25		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 04:25	03/05/21 04:25	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 04:25	03/05/21 04:25	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	85.7	%	70.0-130	1	03/05/21 04:25	03/05/21 04:25	615-59-8FID	
2,5-Dibromotoluene (PID)	87.7	%	70.0-130	1	03/05/21 04:25	03/05/21 04:25	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 15:07	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 14:44	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 14:44	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 14:44	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 14:44	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 14:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 14:44	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 14:44	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 14:44	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 14:44	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 14:44	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 14:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 14:44	75-00-3	
Chloroform	1.2	ug/L	0.50	1		03/03/21 14:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 14:44	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 14:44	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 14:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 14:44	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 14:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 14:44	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 14:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 14:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 14:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 14:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 14:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 14:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 14:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 14:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 14:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 14:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 14:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 14:44	142-28-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525142

**Sample:** 14000\_LAWTHER\_RD\_202 10302    **Lab ID:** 92525142001    Collected: 03/02/21 14:30    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 14:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 14:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 14:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 14:44	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 14:44	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 14:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 14:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 14:44	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 14:44	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 14:44	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 14:44	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 14:44	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 14:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 14:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 14:44	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 14:44	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 14:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 14:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 14:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 14:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 14:44	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 14:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 14:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 14:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 14:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 14:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 14:44	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 14:44	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 14:44	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/03/21 14:44	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		03/03/21 14:44	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/03/21 14:44	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525142

QC Batch: 1629754	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525142001

METHOD BLANK: R3628624-2 Matrix: Water  
Associated Lab Samples: 92525142001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

Parameter	Units	R3628624-1		R3628624-3		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130		
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525142

QC Batch: 603744

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525142001

METHOD BLANK: 3180706

Matrix: Water

Associated Lab Samples: 92525142001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	470	468	94	94	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525142

QC Batch: 603734 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525142001

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525142001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525142

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525142001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525142

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525142

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3180668		3180669									
Parameter	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
		92525135001	Spike	Spike	MS								
		Result	Conc.	Conc.	Result	Result							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	22.2	110	111	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	22.6	108	113	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	22.0	108	110	60-140	1			
1,1-Dichloroethane	ug/L	ND	20	20	21.2	21.1	106	105	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	22.9	22.8	114	114	60-140	0			
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.5	22.3	108	112	60-140	4			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	22.5	107	113	60-140	5			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3			
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2			
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1			
1,3-Dichlorobenzene	ug/L	ND	20	20	21.7	21.3	109	107	60-140	2			
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	20.7	109	103	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.4	22.9	117	115	60-140	2			
2-Chlorotoluene	ug/L	ND	20	20	21.7	21.4	108	107	60-140	1			
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2			
Benzene	ug/L	ND	20	20	22.0	22.0	110	110	60-140	0			
Bromobenzene	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4			
Bromochloromethane	ug/L	ND	20	20	22.2	22.1	111	110	60-140	1			
Bromodichloromethane	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2			
Bromoform	ug/L	ND	20	20	17.5	18.4	87	92	60-140	5			
Bromomethane	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.8	113	119	60-140	5			
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	106	109	60-140	2			
Chloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1			
Chloroform	ug/L	ND	20	20	20.7	21.1	103	105	60-140	2			
Chloromethane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4			
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.1	22.9	111	115	60-140	4			
Dibromochloromethane	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
Dibromomethane	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3			
Diisopropyl ether	ug/L	ND	20	20	18.5	18.9	93	95	60-140	2			
Ethylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1			
m&p-Xylene	ug/L	ND	40	40	43.3	44.6	108	111	60-140	3			
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3			
Methylene Chloride	ug/L	ND	20	20	17.9	17.9	89	90	60-140	1			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525142

Parameter	Units	3180668		3180669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3		
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4		
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0		
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0		
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2		
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3		
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3		
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0		
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2		
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3		
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5		
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0		
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3		
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5		
1,2-Dichloroethane-d4 (S)	%						96	96	70-130			
4-Bromofluorobenzene (S)	%						100	102	70-130			
Toluene-d8 (S)	%						97	100	70-130			

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525142

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92525142

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525142001	14000_LAWTHER_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525142001	14000_LAWTHER_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525142001	14000_LAWTHER_RD_20210302	SM 6200B	603734		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - ALL

WO#: 92525142

Company: Apex Companies

Address: Andrew Street

Report To: Andrew Street

Copy To: Andrew Street

Customer Project Name/Number: 2020-LI-2418 Incident

Site/Facility ID #: NC Huntersville

Collected By (print): Naomi Fret

Collected By (signature): Naomi Fret

Sample Disposal: [ ] Same Day [ ] Next Day

[ ] Dispose as appropriate [ ] Return

[ ] Archive: [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day

[ ] Hold: (Expedite Charges Apply)

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: 1400-LANTHER-20201832 DW G

Matrix \* DW G

Collected (or Composite Start) Date: 3-27-17

Composite End Date: 1730

Res CI: 8

# of Ctns: 8

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet

Blue Dry None

Packing Material Used: BB

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2616159

Samples received via: FEDEX UPS Client Courier Pace Courier

Temp Blank Received: Y N NA

Therm ID#: 110617

Cooler 1 Temp Upon Receipt: 1.7 oC

Cooler 1 Therm Corr. Factor: 0.0 oC

Cooler 1 Corrected Temp: 1.7 oC

Comments:

Relinquished by/Company: (Signature) Naomi Fret / Apex

Date/Time: 3-27-17 05

Received by/Company: (Signature) JF PA 06 HK

Date/Time: 3-27-17 05

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Billing Information:

Email To: Andrew.Steed@apex.com

Site Collection Info/Address: 14000 LANTHER ROAD

State: NC County/City: Huntersville

Time Zone Collected: PT MT CT ET

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: [ ] Yes [ ] No

DW Location Code: [ ] Yes [ ] No

Immediately Packed on Ice: [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signatures Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
CI Strips: Y N NA
Sample pH Acceptable Y N NA
pH Strips: Y N NA
Sulfide Present Y N NA
Lead Acetate Strips: Y N NA
LAB USE ONLY:
Lab Sample # / Comments: 92525142

Container Preser: ALL

92525142

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other



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

Project # **W0# : 92525142**  
 PM: AMB Due Date: 03/09/21  
 CLIENT: 92-APEX MOOR

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

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

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 Na2SO3 (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																												
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 (if a Out of hold, incorrect preservative, out of temp, incorrect containers).

March 11, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525135

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

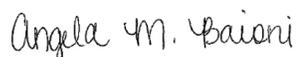
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised laboratory report is being submitted on 3/11/21 to revise the sample ID. It was entered incorrectly at sample log in.

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC

Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525135

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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 Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

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

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 ANALYTE COUNT

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525135001	14024_SIMS_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

**Sample:** 14024\_SIMS\_RD\_20210302    **Lab ID:** 92525135001    Collected: 03/02/21 13:40    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 10:36	03/05/21 10:36		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 10:36	03/05/21 10:36		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 10:36	03/05/21 10:36	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 10:36	03/05/21 10:36	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	78.0	%	70.0-130	1	03/05/21 10:36	03/05/21 10:36	615-59-8FID	
2,5-Dibromotoluene (PID)	81.0	%	70.0-130	1	03/05/21 10:36	03/05/21 10:36	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 14:34	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 13:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 13:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 13:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 13:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 13:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 13:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 13:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 13:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 13:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 13:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 13:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 13:33	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 13:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 13:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 13:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 13:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 13:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 13:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 13:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 13:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 13:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 13:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 13:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 13:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 13:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 13:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 13:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 13:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 13:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 13:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 13:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 13:33	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

**Sample:** 14024\_SIMS\_RD\_20210302    **Lab ID:** 92525135001    Collected: 03/02/21 13:40    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 13:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 13:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 13:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 13:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 13:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 13:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 13:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 13:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 13:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 13:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 13:33	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 13:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 13:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 13:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 13:33	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 13:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 13:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 13:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 13:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 13:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 13:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 13:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 13:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 13:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 13:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 13:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 13:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 13:33	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/03/21 13:33	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/03/21 13:33	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/03/21 13:33	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

QC Batch: 1629754

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525135001

METHOD BLANK: R3628624-2

Matrix: Water

Associated Lab Samples: 92525135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

LABORATORY CONTROL SAMPLE & LCSD: R3628624-1 R3628624-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25	
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25	
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130			
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

QC Batch: 603744

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525135001

METHOD BLANK: 3180706

Matrix: Water

Associated Lab Samples: 92525135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	470	468	94	94	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525135

QC Batch: 603734 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525135001

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

METHOD BLANK: 3180666

Matrix: Water

Associated Lab Samples: 92525135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

Parameter	92525135001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5				
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	22.2	110	111	60-140	1				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	22.6	108	113	60-140	5				
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	22.0	108	110	60-140	1				
1,1-Dichloroethane	ug/L	ND	20	20	21.2	21.1	106	105	60-140	0				
1,1-Dichloroethene	ug/L	ND	20	20	22.9	22.8	114	114	60-140	0				
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.5	22.3	108	112	60-140	4				
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	22.5	107	113	60-140	5				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3				
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2				
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1				
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
1,3-Dichlorobenzene	ug/L	ND	20	20	21.7	21.3	109	107	60-140	2				
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1				
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	20.7	109	103	60-140	5				
2,2-Dichloropropane	ug/L	ND	20	20	23.4	22.9	117	115	60-140	2				
2-Chlorotoluene	ug/L	ND	20	20	21.7	21.4	108	107	60-140	1				
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2				
Benzene	ug/L	ND	20	20	22.0	22.0	110	110	60-140	0				
Bromobenzene	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4				
Bromochloromethane	ug/L	ND	20	20	22.2	22.1	111	110	60-140	1				
Bromodichloromethane	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2				
Bromoform	ug/L	ND	20	20	17.5	18.4	87	92	60-140	5				
Bromomethane	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2				
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.8	113	119	60-140	5				
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	106	109	60-140	2				
Chloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1				
Chloroform	ug/L	ND	20	20	20.7	21.1	103	105	60-140	2				
Chloromethane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4				
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1				
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.1	22.9	111	115	60-140	4				
Dibromochloromethane	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2				
Dibromomethane	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0				
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3				
Diisopropyl ether	ug/L	ND	20	20	18.5	18.9	93	95	60-140	2				
Ethylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	60-140	2				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1				
m&p-Xylene	ug/L	ND	40	40	43.3	44.6	108	111	60-140	3				
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3				
Methylene Chloride	ug/L	ND	20	20	17.9	17.9	89	90	60-140	1				

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: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

Parameter	Units	3180668		3180669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525135001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3		
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4		
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0		
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0		
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2		
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3		
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3		
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0		
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2		
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3		
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5		
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0		
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3		
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5		
1,2-Dichloroethane-d4 (S)	%							96	96	70-130		
4-Bromofluorobenzene (S)	%							100	102	70-130		
Toluene-d8 (S)	%							97	100	70-130		

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: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

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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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525135

<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92525135001	14024_SIMS_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525135001	14024_SIMS_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525135001	14024_SIMS_RD_20210302	SM 6200B	603734		

**REPORT OF LABORATORY ANALYSIS**

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: *Pace Companies*

Billing Information:

Report To: *Andrew Street*

Copy To: *Andrew Street*

Customer Project Name/Number: *2020-CI-2448 Incident*

Site/Facility ID #: *NC1 Huntersville*

Collected By (print): *Miriam Ritz*

Sample Disposal:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Composite End Date	Res Cl	# of Ctns
<i>11024-STMS-BD-2020-134</i>	<i>DW</i>	<i>G</i>	<i>3/22/1340</i>			<i>8</i>

LAB USE ONLY -  
**MO#: 92525135**  
 ALL  
 Container Prese  
**92525135**  
 Barcode  
 \*\*Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfite, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses  
 Lab Profile/line:  
 Lab Sample Receipt Checklist:

Custody Seals Present/Intact:  NA  
 Custody Signatures Present:  NA  
 Collector Signature Present:  NA  
 Bottles Intact:  NA  
 Correct Bottles:  NA  
 Sufficient Volume:  NA  
 Samples Received on Ice:  NA  
 VOA - Headspace Acceptable:  NA  
 USDA Regulated Soils:  NA  
 Samples in Holding Time:  NA  
 Residual Chlorine Present:  NA  
 Cl Strips: *Present*  
 Sample pH Acceptable:  NA  
 pH Strips:  NA  
 Sulfide Present:  NA  
 Lead Acetate Strips:  NA

LAB USE ONLY:  
 Lab Sample # / Comments:  
*82525135*  
*OC*

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: *KB*

Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) *Naomi Ritz / Pace*

Lab Tracking #: *2616168*

Relinquished by/Company: (Signature) *Naomi Ritz / Pace*

Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature)

Table #: \_\_\_\_\_  
 MTL LAB USE ONLY

Temp Blank Received:  NA  
 Therm ID#: *425064*  
 Cooler 1 Temp Upon Receipt: *10* OC  
 Cooler 1 Therm Corr Factor: *0.0*  
 Cooler 1 Corrected Temp: *10* OC  
 Trip Blank Received:  NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES / NO  
 Page: \_\_\_\_\_ of: \_\_\_\_\_

February 24, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92522445

Dear Andrew Street:

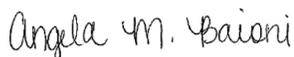
Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522445

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92522445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92522445001	14226_HC_RD_20210216	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522445

**Sample:** 14226\_HC\_RD\_20210216    **Lab ID:** 92522445001    Collected: 02/16/21 09:45    Received: 02/16/21 13:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/24/21 02:25	02/24/21 02:25		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/24/21 02:25	02/24/21 02:25		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/24/21 02:25	02/24/21 02:25	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/24/21 02:25	02/24/21 02:25	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	105	%	70.0-130	1	02/24/21 02:25	02/24/21 02:25	615-59-8FID	
2,5-Dibromotoluene (PID)	104	%	70.0-130	1	02/24/21 02:25	02/24/21 02:25	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/19/21 02:33	02/19/21 18:58	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/19/21 00:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/19/21 00:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/19/21 00:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/19/21 00:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/19/21 00:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/19/21 00:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/19/21 00:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/19/21 00:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/19/21 00:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/19/21 00:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/19/21 00:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/19/21 00:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/19/21 00:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/19/21 00:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/19/21 00:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/19/21 00:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/19/21 00:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/19/21 00:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/19/21 00:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/19/21 00:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/19/21 00:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/19/21 00:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/19/21 00:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/19/21 00:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/19/21 00:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/19/21 00:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/19/21 00:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/19/21 00:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/19/21 00:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/19/21 00:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/19/21 00:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/19/21 00:37	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522445

**Sample:** 14226\_HC\_RD\_20210216    **Lab ID:** 92522445001    Collected: 02/16/21 09:45    Received: 02/16/21 13:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/19/21 00:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/19/21 00:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/19/21 00:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/19/21 00:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/19/21 00:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/19/21 00:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/19/21 00:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/19/21 00:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/19/21 00:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/19/21 00:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/19/21 00:37	103-65-1	
Styrene	ND	ug/L	0.50	1		02/19/21 00:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/19/21 00:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/19/21 00:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/19/21 00:37	127-18-4	
Toluene	ND	ug/L	0.50	1		02/19/21 00:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/19/21 00:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/19/21 00:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/19/21 00:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/19/21 00:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/19/21 00:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/19/21 00:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/19/21 00:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/19/21 00:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/19/21 00:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/19/21 00:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/19/21 00:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/19/21 00:37	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/19/21 00:37	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		02/19/21 00:37	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		02/19/21 00:37	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522445

QC Batch: 1624518

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92522445001

METHOD BLANK: R3624660-3

Matrix: Water

Associated Lab Samples: 92522445001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/23/21 20:45	
Aliphatic (C09-C12)	ug/L	ND	100	02/23/21 20:45	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/23/21 20:45	
Total VPH	ug/L	ND	100	02/23/21 20:45	
2,5-Dibromotoluene (FID)	%	83.6	70.0-130	02/23/21 20:45	
2,5-Dibromotoluene (PID)	%	83.6	70.0-130	02/23/21 20:45	

LABORATORY CONTROL SAMPLE & LCSD: R3624660-1 R3624660-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1010	996	84.2	83.0	70.0-130	1.40	25	
Aliphatic (C09-C12)	ug/L	1400	1380	1390	98.6	99.3	70.0-130	0.722	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	197	195	98.5	97.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2590	2580	92.5	92.1	70.0-130	0.387	25	
2,5-Dibromotoluene (FID)	%				81.5	93.5	70.0-130			
2,5-Dibromotoluene (PID)	%				81.3	93.3	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522445

QC Batch: 601150

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92522445001

METHOD BLANK: 3168304

Matrix: Water

Associated Lab Samples: 92522445001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/19/21 18:32	

LABORATORY CONTROL SAMPLE: 3168305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3168306 3168307

Parameter	Units	92522780001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Lead	ug/L	ND	500	500	478	484	96	97	75-125	1	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522445

QC Batch: 601019

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92522445001

METHOD BLANK: 3167623

Matrix: Water

Associated Lab Samples: 92522445001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 23:25	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/18/21 23:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 23:25	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/18/21 23:25	
1,1-Dichloroethane	ug/L	ND	0.50	02/18/21 23:25	
1,1-Dichloroethene	ug/L	ND	0.50	02/18/21 23:25	
1,1-Dichloropropene	ug/L	ND	0.50	02/18/21 23:25	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/18/21 23:25	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/18/21 23:25	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/18/21 23:25	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/18/21 23:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/18/21 23:25	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/18/21 23:25	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/18/21 23:25	
1,2-Dichloroethane	ug/L	ND	0.50	02/18/21 23:25	
1,2-Dichloropropane	ug/L	ND	0.50	02/18/21 23:25	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/18/21 23:25	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/18/21 23:25	
1,3-Dichloropropane	ug/L	ND	0.50	02/18/21 23:25	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/18/21 23:25	
2,2-Dichloropropane	ug/L	ND	0.50	02/18/21 23:25	
2-Chlorotoluene	ug/L	ND	0.50	02/18/21 23:25	
4-Chlorotoluene	ug/L	ND	0.50	02/18/21 23:25	
Benzene	ug/L	ND	0.50	02/18/21 23:25	
Bromobenzene	ug/L	ND	0.50	02/18/21 23:25	
Bromochloromethane	ug/L	ND	0.50	02/18/21 23:25	
Bromodichloromethane	ug/L	ND	0.50	02/18/21 23:25	
Bromoform	ug/L	ND	0.50	02/18/21 23:25	
Bromomethane	ug/L	ND	5.0	02/18/21 23:25	
Carbon tetrachloride	ug/L	ND	0.50	02/18/21 23:25	
Chlorobenzene	ug/L	ND	0.50	02/18/21 23:25	
Chloroethane	ug/L	ND	1.0	02/18/21 23:25	
Chloroform	ug/L	ND	0.50	02/18/21 23:25	
Chloromethane	ug/L	ND	1.0	02/18/21 23:25	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 23:25	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 23:25	
Dibromochloromethane	ug/L	ND	0.50	02/18/21 23:25	
Dibromomethane	ug/L	ND	0.50	02/18/21 23:25	
Dichlorodifluoromethane	ug/L	ND	0.50	02/18/21 23:25	
Diisopropyl ether	ug/L	ND	0.50	02/18/21 23:25	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522445

METHOD BLANK: 3167623 Matrix: Water  
Associated Lab Samples: 92522445001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/18/21 23:25	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/18/21 23:25	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/18/21 23:25	
m&p-Xylene	ug/L	ND	1.0	02/18/21 23:25	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/18/21 23:25	
Methylene Chloride	ug/L	ND	2.0	02/18/21 23:25	
n-Butylbenzene	ug/L	ND	0.50	02/18/21 23:25	
n-Propylbenzene	ug/L	ND	0.50	02/18/21 23:25	
Naphthalene	ug/L	ND	2.0	02/18/21 23:25	
o-Xylene	ug/L	ND	0.50	02/18/21 23:25	
sec-Butylbenzene	ug/L	ND	0.50	02/18/21 23:25	
Styrene	ug/L	ND	0.50	02/18/21 23:25	
tert-Butylbenzene	ug/L	ND	0.50	02/18/21 23:25	
Tetrachloroethene	ug/L	ND	0.50	02/18/21 23:25	
Toluene	ug/L	ND	0.50	02/18/21 23:25	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 23:25	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 23:25	
Trichloroethene	ug/L	ND	0.50	02/18/21 23:25	
Trichlorofluoromethane	ug/L	ND	1.0	02/18/21 23:25	
Vinyl chloride	ug/L	ND	1.0	02/18/21 23:25	
1,2-Dichloroethane-d4 (S)	%	95	70-130	02/18/21 23:25	
4-Bromofluorobenzene (S)	%	96	70-130	02/18/21 23:25	
Toluene-d8 (S)	%	99	70-130	02/18/21 23:25	

LABORATORY CONTROL SAMPLE: 3167624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.3	105	60-140	
1,1,1-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	60-140	
1,1,2-Trichloroethane	ug/L	50	50.9	102	60-140	
1,1-Dichloroethane	ug/L	50	49.3	99	60-140	
1,1-Dichloroethene	ug/L	50	50.6	101	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	49.1	98	60-140	
1,2,3-Trichloropropane	ug/L	50	49.9	100	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.2	112	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	60-140	
1,2-Dichlorobenzene	ug/L	50	50.5	101	60-140	
1,2-Dichloroethane	ug/L	50	47.7	95	60-140	
1,2-Dichloropropane	ug/L	50	52.3	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.4	97	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522445

LABORATORY CONTROL SAMPLE: 3167624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.9	102	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	49.7	99	60-140	
2-Chlorotoluene	ug/L	50	50.7	101	60-140	
4-Chlorotoluene	ug/L	50	49.3	99	60-140	
Benzene	ug/L	50	49.5	99	60-140	
Bromobenzene	ug/L	50	50.5	101	60-140	
Bromochloromethane	ug/L	50	51.7	103	60-140	
Bromodichloromethane	ug/L	50	47.4	95	60-140	
Bromoform	ug/L	50	46.4	93	60-140	
Bromomethane	ug/L	50	48.5	97	60-140	
Carbon tetrachloride	ug/L	50	50.8	102	60-140	
Chlorobenzene	ug/L	50	50.8	102	60-140	
Chloroethane	ug/L	50	42.3	85	60-140	
Chloroform	ug/L	50	47.8	96	60-140	
Chloromethane	ug/L	50	41.8	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.7	107	60-140	
Dibromochloromethane	ug/L	50	52.9	106	60-140	
Dibromomethane	ug/L	50	51.5	103	60-140	
Dichlorodifluoromethane	ug/L	50	44.6	89	60-140	
Diisopropyl ether	ug/L	50	49.6	99	60-140	
Ethylbenzene	ug/L	50	49.8	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.7	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.9	100	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	49.6	99	60-140	
Methylene Chloride	ug/L	50	46.5	93	60-140	
n-Butylbenzene	ug/L	50	49.0	98	60-140	
n-Propylbenzene	ug/L	50	48.9	98	60-140	
Naphthalene	ug/L	50	52.1	104	60-140	
o-Xylene	ug/L	50	50.2	100	60-140	
sec-Butylbenzene	ug/L	50	48.6	97	60-140	
Styrene	ug/L	50	51.7	103	60-140	
tert-Butylbenzene	ug/L	50	42.6	85	60-140	
Tetrachloroethene	ug/L	50	49.4	99	60-140	
Toluene	ug/L	50	49.8	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
trans-1,3-Dichloropropene	ug/L	50	53.7	107	60-140	
Trichloroethene	ug/L	50	51.9	104	60-140	
Trichlorofluoromethane	ug/L	50	42.1	84	60-140	
Vinyl chloride	ug/L	50	43.8	88	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522445

Parameter	92522444001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	21.9	108	109	60-140	2				
1,1,1-Trichloroethane	ug/L	ND	20	20	21.7	22.4	109	112	60-140	3				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.6	20.2	103	101	60-140	2				
1,1,2-Trichloroethane	ug/L	ND	20	20	20.5	21.4	103	107	60-140	4				
1,1-Dichloroethane	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2				
1,1-Dichloroethene	ug/L	ND	20	20	23.2	22.9	116	114	60-140	1				
1,1-Dichloropropene	ug/L	ND	20	20	21.0	22.1	105	110	60-140	5				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.8	19.5	94	97	60-140	3				
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	19.9	96	100	60-140	4				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.6	19.8	98	99	60-140	1				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.8	19.5	99	98	60-140	2				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.7	22.2	104	111	60-140	7				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.6	21.8	103	109	60-140	6				
1,2-Dichlorobenzene	ug/L	ND	20	20	19.2	19.9	96	99	60-140	4				
1,2-Dichloroethane	ug/L	ND	20	20	19.9	20.4	99	102	60-140	3				
1,2-Dichloropropane	ug/L	ND	20	20	22.5	22.8	113	114	60-140	1				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.8	19.7	99	98	60-140	1				
1,3-Dichlorobenzene	ug/L	ND	20	20	19.6	19.9	98	100	60-140	1				
1,3-Dichloropropane	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	20	20	18.8	19.1	94	96	60-140	2				
2,2-Dichloropropane	ug/L	ND	20	20	22.5	23.0	113	115	60-140	2				
2-Chlorotoluene	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0				
4-Chlorotoluene	ug/L	ND	20	20	19.7	19.6	99	98	60-140	1				
Benzene	ug/L	ND	20	20	21.2	21.5	106	108	60-140	2				
Bromobenzene	ug/L	ND	20	20	20.3	20.6	101	103	60-140	2				
Bromochloromethane	ug/L	ND	20	20	20.7	21.4	104	107	60-140	3				
Bromodichloromethane	ug/L	ND	20	20	19.9	21.1	100	106	60-140	6				
Bromoform	ug/L	ND	20	20	18.5	18.6	93	93	60-140	1				
Bromomethane	ug/L	ND	20	20	24.2	23.9	121	119	60-140	1				
Carbon tetrachloride	ug/L	ND	20	20	22.5	24.0	113	120	60-140	6				
Chlorobenzene	ug/L	ND	20	20	21.4	21.5	107	108	60-140	0				
Chloroethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1				
Chloroform	ug/L	9.0	20	20	30.2	31.3	106	111	60-140	4				
Chloromethane	ug/L	ND	20	20	18.0	19.5	90	97	60-140	8				
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.0	20.8	100	104	60-140	4				
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.8	22.3	109	111	60-140	2				
Dibromochloromethane	ug/L	ND	20	20	21.6	22.1	108	110	60-140	2				
Dibromomethane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1				
Dichlorodifluoromethane	ug/L	ND	20	20	19.8	20.2	99	101	60-140	2				
Diisopropyl ether	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4				
Ethylbenzene	ug/L	ND	20	20	21.2	20.9	106	105	60-140	1				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.6	22.5	118	112	60-140	5				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.2	20.9	106	105	60-140	1				
m&p-Xylene	ug/L	ND	40	40	42.9	42.5	107	106	60-140	1				
Methyl-tert-butyl ether	ug/L	ND	20	20	20.5	21.0	103	105	60-140	2				
Methylene Chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2				

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: 2020-L1-2448 Incident

Pace Project No.: 92522445

Parameter	92522444001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	20.3	20.1	101	101	60-140	1				
n-Propylbenzene	ug/L	ND	20	20	20.5	20.2	102	101	60-140	1				
Naphthalene	ug/L	ND	20	20	19.4	19.1	97	96	60-140	1				
o-Xylene	ug/L	ND	20	20	21.0	21.0	105	105	60-140	0				
sec-Butylbenzene	ug/L	ND	20	20	20.5	20.6	103	103	60-140	0				
Styrene	ug/L	ND	20	20	20.7	20.7	103	103	60-140	0				
tert-Butylbenzene	ug/L	ND	20	20	17.9	17.9	89	89	60-140	0				
Tetrachloroethene	ug/L	ND	20	20	22.1	21.0	111	105	60-140	5				
Toluene	ug/L	ND	20	20	20.8	21.5	104	107	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	22.5	107	112	60-140	5				
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.0	22.1	110	111	60-140	0				
Trichloroethene	ug/L	ND	20	20	21.7	22.2	108	111	60-140	2				
Trichlorofluoromethane	ug/L	ND	20	20	22.0	22.1	110	111	60-140	1				
Vinyl chloride	ug/L	ND	20	20	20.5	20.3	103	101	60-140	1				
1,2-Dichloroethane-d4 (S)	%						102	101	70-130					
4-Bromofluorobenzene (S)	%						99	100	70-130					
Toluene-d8 (S)	%						100	101	70-130					

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: 2020-L1-2448 Incident

Pace Project No.: 92522445

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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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522445

<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92522445001	14226_HC_RD_20210216	MADEPV	1624518	MADEP VPH	1624518
92522445001	14226_HC_RD_20210216	EPA 3010A	601150	EPA 6010D	601184
92522445001	14226_HC_RD_20210216	SM 6200B	601019		

**REPORT OF LABORATORY ANALYSIS**

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: Apex Analytical  
 Address: Apex Companies

Report To: Andrew Street  
 Copy To: Andrew Street

Customer Project Name/Number: 2020-LI-2448 Incident  
 Site/Facility ID #: \_\_\_\_\_

Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

Collected By (print): Nawmi Fretz  
 Quote #: \_\_\_\_\_

Collected By (signature): Nawmi Fretz  
 Turnaround Date Required: ASAP

Sample Disposal:  
 Same Day  Next Day  
 12 Day  13 Day  14 Day  15 Day  
 Archive: \_\_\_\_\_  
 Hold: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Lab Profile/Line: \_\_\_\_\_

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y  N  NA  
 Custody Signatures Present Y  N  NA  
 Collector Signature Present Y  N  NA  
 Bottles Intact Y  N  NA  
 Correct Bottles Y  N  NA  
 Sufficient Volume Y  N  NA  
 Samples Received on Ice Y  N  NA  
 VOA - Headspace Acceptable Y  N  NA  
 USDA Regulated Soils Y  N  NA  
 Samples in Holding Time Y  N  NA  
 Residual Chlorine Present Y  N  NA  
 CL Strips: \_\_\_\_\_  
 Sample pH Acceptable Y  N  NA  
 pH Strips: 7.5-7.9  
 Sulfide Present Y  N  NA  
 Lead Acetate Strips: \_\_\_\_\_  
 LAB USE ONLY: \_\_\_\_\_  
 Lab Sample # / Comments: 92522445

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns	Type of Ice Used:			Packing Material Used:	Customer Remarks / Special Conditions / Possible Hazards:			
			Date	Time			Wet	Blue	Dry		None			
<u>14226-11-00-20210216</u>	<u>DIW</u>	<u>6</u>	<u>2-16-21</u>	<u>0945</u>		<u>8</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>0 bags</u>	<u>SHORT HOLDS PRESENT (&lt;72 hours):</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
											Lab Tracking #:	<u>2561327</u>		
											Samples received via:	<u>FEDEX</u>	<u>UPS</u>	<u>Client</u>
											Date/Time:	<u>27691</u>	<u>1355</u>	
											Received by/Company: (Signature)	<u>MDG Baethel</u>	<u>27691</u>	<u>1355</u>
											Received by/Company: (Signature)			
											Received by/Company: (Signature)			

Lab Sample Temperature Info:  
 Temp Blank Received: Y  N  NA  
 Therm ID#: IR927064  
 Cooler 1 Temp Upon Receipt: 5.0<sup>oC</sup>  
 Cooler 1 Therm Corr. Factor: 4.9<sup>oC</sup>  
 Cooler 1 Corrected Temp: 4.9<sup>oC</sup>  
 Comments:

Trip Blank Received: Y  N  NA  
 HCL MeOH TSP Other

Non Conformance(s): YES / NO  
 Page: \_\_\_\_\_ of: \_\_\_\_\_

March 02, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92523584

Dear Andrew Street:

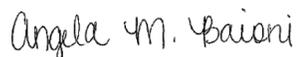
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523584

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523584

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523584001	14226_HC_RD_20210223	MADEP VPH	JHH	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92523584

**Sample:** 14226\_HC\_RD\_20210223    **Lab ID:** 92523584001    Collected: 02/23/21 10:10    Received: 02/23/21 13:35    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/28/21 06:32	02/28/21 06:32		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/28/21 06:32	02/28/21 06:32		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/28/21 06:32	02/28/21 06:32	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/28/21 06:32	02/28/21 06:32	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	105	%	70.0-130	1	02/28/21 06:32	02/28/21 06:32	615-59-8FID	
2,5-Dibromotoluene (PID)	105	%	70.0-130	1	02/28/21 06:32	02/28/21 06:32	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/24/21 02:09	02/28/21 22:32	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/24/21 05:12	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/24/21 05:12	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/24/21 05:12	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/24/21 05:12	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/24/21 05:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/24/21 05:12	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/24/21 05:12	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/24/21 05:12	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/24/21 05:12	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/24/21 05:12	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/24/21 05:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/21 05:12	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/24/21 05:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/21 05:12	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 05:12	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 05:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/24/21 05:12	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/24/21 05:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/24/21 05:12	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/24/21 05:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 05:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 05:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 05:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/24/21 05:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/24/21 05:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/24/21 05:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/24/21 05:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 05:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 05:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 05:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/24/21 05:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 05:12	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92523584

Sample: 14226_HC_RD_20210223	Lab ID: 92523584001	Collected: 02/23/21 10:10	Received: 02/23/21 13:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/24/21 05:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 05:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 05:12	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/24/21 05:12	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/24/21 05:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/24/21 05:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/24/21 05:12	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/24/21 05:12	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/24/21 05:12	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/24/21 05:12	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/24/21 05:12	103-65-1	
Styrene	ND	ug/L	0.50	1		02/24/21 05:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 05:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 05:12	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/24/21 05:12	127-18-4	
Toluene	ND	ug/L	0.50	1		02/24/21 05:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 05:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 05:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/24/21 05:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/24/21 05:12	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/24/21 05:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/21 05:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/24/21 05:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 05:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 05:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/24/21 05:12	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/24/21 05:12	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/24/21 05:12	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		02/24/21 05:12	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		02/24/21 05:12	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		02/24/21 05:12	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523584

QC Batch: 1626945	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92523584001

METHOD BLANK: R3626445-3 Matrix: Water  
Associated Lab Samples: 92523584001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/27/21 12:57	
Aliphatic (C09-C12)	ug/L	ND	100	02/27/21 12:57	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/27/21 12:57	
Total VPH	ug/L	ND	100	02/27/21 12:57	
2,5-Dibromotoluene (FID)	%	95.2	70.0-130	02/27/21 12:57	
2,5-Dibromotoluene (PID)	%	96.8	70.0-130	02/27/21 12:57	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: R3626445-1					R3626445-2				
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Aliphatic (C05-C08)	ug/L	1200	1290	1290	107	107	70.0-130	0.00	25		
Aliphatic (C09-C12)	ug/L	1400	1670	1650	119	118	70.0-130	1.20	25		
Aromatic (C09-C10),Unadjusted	ug/L	200	246	248	123	124	70.0-130	0.810	25		
Total VPH	ug/L	2800	3210	3190	115	114	70.0-130	0.625	25		
2,5-Dibromotoluene (FID)	%				102	105	70.0-130				
2,5-Dibromotoluene (PID)	%				104	107	70.0-130				

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523584

QC Batch: 602104	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523584001

METHOD BLANK: 3172642 Matrix: Water

Associated Lab Samples: 92523584001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/28/21 21:13	

LABORATORY CONTROL SAMPLE: 3172643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172644 3172645

Parameter	Units	92523735020		3172645		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92523584

QC Batch: 602003

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523584001

METHOD BLANK: 3172101

Matrix: Water

Associated Lab Samples: 92523584001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
2,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
2-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
4-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
Benzene	ug/L	ND	0.50	02/24/21 00:42	
Bromobenzene	ug/L	ND	0.50	02/24/21 00:42	
Bromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromodichloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromoform	ug/L	ND	0.50	02/24/21 00:42	
Bromomethane	ug/L	ND	5.0	02/24/21 00:42	
Carbon tetrachloride	ug/L	ND	0.50	02/24/21 00:42	
Chlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
Chloroethane	ug/L	ND	1.0	02/24/21 00:42	
Chloroform	ug/L	ND	0.50	02/24/21 00:42	
Chloromethane	ug/L	ND	1.0	02/24/21 00:42	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Dibromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Dibromomethane	ug/L	ND	0.50	02/24/21 00:42	
Dichlorodifluoromethane	ug/L	ND	0.50	02/24/21 00:42	
Diisopropyl ether	ug/L	ND	0.50	02/24/21 00:42	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92523584

METHOD BLANK: 3172101

Matrix: Water

Associated Lab Samples: 92523584001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/24/21 00:42	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/24/21 00:42	
m&p-Xylene	ug/L	ND	1.0	02/24/21 00:42	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/24/21 00:42	
Methylene Chloride	ug/L	ND	2.0	02/24/21 00:42	
n-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
n-Propylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Naphthalene	ug/L	ND	2.0	02/24/21 00:42	
o-Xylene	ug/L	ND	0.50	02/24/21 00:42	
sec-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Styrene	ug/L	ND	0.50	02/24/21 00:42	
tert-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Tetrachloroethene	ug/L	ND	0.50	02/24/21 00:42	
Toluene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Trichloroethene	ug/L	ND	0.50	02/24/21 00:42	
Trichlorofluoromethane	ug/L	ND	1.0	02/24/21 00:42	
Vinyl chloride	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dichloroethane-d4 (S)	%	99	70-130	02/24/21 00:42	
4-Bromofluorobenzene (S)	%	97	70-130	02/24/21 00:42	
Toluene-d8 (S)	%	101	70-130	02/24/21 00:42	

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	60-140	
1,1,2-Trichloroethane	ug/L	50	54.9	110	60-140	
1,1-Dichloroethane	ug/L	50	52.4	105	60-140	
1,1-Dichloroethene	ug/L	50	54.2	108	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.8	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.8	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	60-140	
1,2-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	56.7	113	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523584

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,3-Dichloropropane	ug/L	50	53.3	107	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	52.2	104	60-140	
2-Chlorotoluene	ug/L	50	51.1	102	60-140	
4-Chlorotoluene	ug/L	50	50.2	100	60-140	
Benzene	ug/L	50	53.9	108	60-140	
Bromobenzene	ug/L	50	51.1	102	60-140	
Bromochloromethane	ug/L	50	52.6	105	60-140	
Bromodichloromethane	ug/L	50	54.4	109	60-140	
Bromoform	ug/L	50	50.3	101	60-140	
Bromomethane	ug/L	50	52.1	104	60-140	
Carbon tetrachloride	ug/L	50	57.8	116	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	47.8	96	60-140	
Chloroform	ug/L	50	50.6	101	60-140	
Chloromethane	ug/L	50	43.1	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.3	115	60-140	
Dibromochloromethane	ug/L	50	56.5	113	60-140	
Dibromomethane	ug/L	50	55.8	112	60-140	
Dichlorodifluoromethane	ug/L	50	51.2	102	60-140	
Diisopropyl ether	ug/L	50	49.8	100	60-140	
Ethylbenzene	ug/L	50	52.0	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.5	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	48.6	97	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	49.7	99	60-140	
Naphthalene	ug/L	50	53.0	106	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	50.0	100	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	51.9	104	60-140	
Toluene	ug/L	50	53.3	107	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.3	117	60-140	
Trichloroethene	ug/L	50	55.5	111	60-140	
Trichlorofluoromethane	ug/L	50	47.6	95	60-140	
Vinyl chloride	ug/L	50	47.2	94	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			103	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523584

Parameter	92523527010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.4	104	107	60-140	2				
1,1,1-Trichloroethane	ug/L	ND	20	20	20.6	20.9	103	104	60-140	1				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.3	19.5	97	98	60-140	1				
1,1,2-Trichloroethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0				
1,1-Dichloroethane	ug/L	ND	20	20	20.4	20.0	102	100	60-140	2				
1,1-Dichloroethene	ug/L	ND	20	20	21.9	21.1	110	106	60-140	4				
1,1-Dichloropropene	ug/L	ND	20	20	21.1	20.6	105	103	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.8	19.1	109	96	60-140	13				
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	19.4	96	97	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.1	19.7	106	98	60-140	7				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.7	19.0	99	95	60-140	4				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.9	21.3	115	106	60-140	7				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.2	20.6	101	103	60-140	2				
1,2-Dichlorobenzene	ug/L	ND	20	20	20.2	19.0	101	95	60-140	6				
1,2-Dichloroethane	ug/L	ND	20	20	19.4	19.5	97	98	60-140	1				
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.5	108	108	60-140	0				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.0	19.3	100	96	60-140	4				
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.5	101	97	60-140	4				
1,3-Dichloropropane	ug/L	ND	20	20	19.9	20.0	100	100	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	18.6	95	93	60-140	2				
2,2-Dichloropropane	ug/L	ND	20	20	22.3	21.3	111	107	60-140	4				
2-Chlorotoluene	ug/L	ND	20	20	20.0	19.7	100	98	60-140	2				
4-Chlorotoluene	ug/L	ND	20	20	19.5	19.3	98	97	60-140	1				
Benzene	ug/L	ND	20	20	20.6	20.1	103	101	60-140	2				
Bromobenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	7				
Bromochloromethane	ug/L	ND	20	20	20.3	19.8	102	99	60-140	2				
Bromodichloromethane	ug/L	ND	20	20	19.7	20.0	98	100	60-140	2				
Bromoform	ug/L	ND	20	20	17.8	18.0	89	90	60-140	2				
Bromomethane	ug/L	ND	20	20	20.8	21.2	104	106	60-140	2				
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.0	113	110	60-140	3				
Chlorobenzene	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1				
Chloroethane	ug/L	ND	20	20	18.3	17.7	91	89	60-140	3				
Chloroform	ug/L	ND	20	20	19.9	19.5	100	98	60-140	2				
Chloromethane	ug/L	ND	20	20	15.3	15.3	76	76	60-140	0				
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	19.2	102	96	60-140	6				
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2				
Dibromochloromethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2				
Dibromomethane	ug/L	ND	20	20	20.8	20.7	104	104	60-140	0				
Dichlorodifluoromethane	ug/L	ND	20	20	12.8	12.8	64	64	60-140	0				
Diisopropyl ether	ug/L	ND	20	20	19.5	19.3	98	96	60-140	1				
Ethylbenzene	ug/L	ND	20	20	20.0	19.8	100	99	60-140	1				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.5	22.9	123	115	60-140	7				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	20.0	101	100	60-140	1				
m&p-Xylene	ug/L	ND	40	40	41.0	40.9	102	102	60-140	0				
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	19.8	100	99	60-140	1				
Methylene Chloride	ug/L	ND	20	20	18.9	18.6	94	93	60-140	2				

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92523584

Parameter	92523527010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.0	19.6	105	98	60-140	7				
n-Propylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Naphthalene	ug/L	ND	20	20	21.2	19.1	106	95	60-140	11				
o-Xylene	ug/L	ND	20	20	19.7	19.6	99	98	60-140	1				
sec-Butylbenzene	ug/L	ND	20	20	20.8	19.9	104	99	60-140	5				
Styrene	ug/L	ND	20	20	19.8	20.1	99	101	60-140	2				
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.5	90	87	60-140	3				
Tetrachloroethene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2				
Toluene	ug/L	ND	20	20	20.7	20.5	104	102	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.0	21.2	105	106	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.8	20.8	109	104	60-140	4				
Trichloroethene	ug/L	ND	20	20	21.3	20.9	107	104	60-140	2				
Trichlorofluoromethane	ug/L	ND	20	20	20.0	20.5	100	102	60-140	3				
Vinyl chloride	ug/L	ND	20	20	16.8	16.7	84	84	60-140	0				
1,2-Dichloroethane-d4 (S)	%						99	97	70-130					
4-Bromofluorobenzene (S)	%						98	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92523584

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92523584

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523584001	14226_HC_RD_20210223	MADEPV	1626945	MADEP VPH	1626945
92523584001	14226_HC_RD_20210223	EPA 3010A	602104	EPA 6010D	602118
92523584001	14226_HC_RD_20210223	SM 6200B	602003		

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY Analytical Request Document**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB 'U' Number or

WO#: 92523584

Company: Apex Companies  
Address: Andrew Street

Report To: Andrew Street  
Copy To:

Customer Project Name/Number: 2020-4-2448 Incident  
Phone:  
Email:

Collected By (print): Norm Feld  
Collected By (signature): [Signature]

Sample Disposal: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day [ ] Archive: [ ] Hold: [ ]  
(Expedite Charges Apply)

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Email To: Andrew.Street@apex.com  
Site Collection Info/Address: 14226 Huntersville Concord Rd  
State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Site/Facility ID #: [ ]  
Purchase Order #: [ ]  
Quote #: [ ]  
Turnaround Date Required: ASAP

Compliance Monitoring? [ ] Yes [ ] No  
DW PWS ID #: [ ]  
DW Location Code: [ ]  
Immediately Packed on Ice: [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No  
Analysis: [ ]  
Res CI: [ ]

Collected (or Composite Start) Date: 2-23-21 Time: 10:10  
Composite End Date: [ ] Time: [ ]  
Res CI: [ ]

Matrix \* DW  
Comp / Grab: 6  
# of Ctns: 8

Customer Sample ID: 14226-NC-2020-0228  
Packing Material Used: b. bags  
Type of Ice Used: Wet Blue Dry None

Customer Remarks / Special Conditions / Possible Hazards:  
SHORT HOLDS PRESENT (<72 hours): Y (N) N/A  
Lab Tracking #: 2560693

Radchem sample(s) screened (<500 cpm): Y N (NA)  
Received by/Company (Signature): [Signature]  
Date/Time: 2-23-21 13:35

Relinquished by/Company (Signature): [Signature]  
Date/Time: [ ]  
Relinquished by/Company (Signature): [Signature]  
Date/Time: [ ]  
Relinquished by/Company (Signature): [Signature]  
Date/Time: [ ]

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line: [ ]  
Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y (N) NA  
Custody Signatures Present Y (N) NA  
Collector Signatures Present Y (N) NA  
Bottles Intact Y (N) NA  
Correct Bottles Y (N) NA  
Sufficient Volume Y (N) NA  
Samples Received on Ice Y (N) NA  
VOA - Headspace Acceptable Y (N) NA  
USDA Regulated Soils Y (N) NA  
Samples in Holding Time Y (N) NA  
Residual Chlorine Present Y (N) NA  
Cl Strips: [ ]  
Sample pH Acceptable Y (N) NA  
pH Strips: 2258774V Y (N) NA  
Sulfide Present Y (N) NA  
Lead Acetate Strips: [ ] Y (N) NA

LAB USE ONLY:  
Lab Sample # / Comments: 92523584  
001

Lab Sample Temperature Info:  
Temp Blank Received: Y (N) NA  
Therm ID#: 1R427064  
Cooler 1 Temp Upon Receipt: 4.5 oC  
Cooler 1 Therm Corr. Factor: +0 oC  
Cooler 1 Corrected Temp: 4.5 oC  
Comments:

Trip Blank Received: Y (N) NA  
HCL MeOH TSP Other

Non Conformance(s): YES / (NO)  
Page: 15 of 15

March 09, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92525132

Dear Andrew Street:

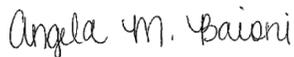
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525132

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92525132

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525132001	14226_HC_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525132

**Sample:** 14226\_HC\_RD\_20210302    **Lab ID:** 92525132001    Collected: 03/02/21 09:35    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 07:18	03/05/21 07:18		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 07:18	03/05/21 07:18		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 07:18	03/05/21 07:18	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 07:18	03/05/21 07:18	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	87.2	%	70.0-130	1	03/05/21 07:18	03/05/21 07:18	615-59-8FID	
2,5-Dibromotoluene (PID)	90.6	%	70.0-130	1	03/05/21 07:18	03/05/21 07:18	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/03/21 01:45	03/04/21 14:24	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 12:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 12:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 12:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 12:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 12:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 12:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 12:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 12:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 12:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 12:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 12:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 12:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 12:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 12:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 12:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 12:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 12:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525132

Sample: 14226_HC_RD_20210302	Lab ID: 92525132001	Collected: 03/02/21 09:35	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 12:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 12:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 12:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 12:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 12:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 12:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 12:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 12:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 12:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 12:39	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 12:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 12:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 12:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 12:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 12:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 12:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 12:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 12:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 12:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 12:39	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/03/21 12:39	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/03/21 12:39	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/03/21 12:39	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525132

QC Batch: 1629754

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525132001

METHOD BLANK: R3628624-2

Matrix: Water

Associated Lab Samples: 92525132001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

LABORATORY CONTROL SAMPLE & LCSD: R3628624-1 R3628624-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25	
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25	
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130			
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130			

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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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525132

QC Batch: 603744	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525132001

METHOD BLANK: 3180706 Matrix: Water  
Associated Lab Samples: 92525132001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Lead	ug/L	ND	500	500	470	468	94	94	75-125	0	

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: 2020-L1-2448 Incident  
Pace Project No.: 92525132

QC Batch: 603734	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525132001

METHOD BLANK: 3180666 Matrix: Water

Associated Lab Samples: 92525132001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525132

METHOD BLANK: 3180666

Matrix: Water

Associated Lab Samples: 92525132001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525132

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92525132

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3180668		3180669								
Parameter	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	RPD	Qual
		92525135001	Spike	Spike	MS							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.5	22.6	108	113	60-140	5		
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	22.2	110	111	60-140	1		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	22.6	108	113	60-140	5		
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	22.0	108	110	60-140	1		
1,1-Dichloroethane	ug/L	ND	20	20	21.2	21.1	106	105	60-140	0		
1,1-Dichloroethene	ug/L	ND	20	20	22.9	22.8	114	114	60-140	0		
1,1-Dichloropropene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.5	22.3	108	112	60-140	4		
1,2,3-Trichloropropane	ug/L	ND	20	20	21.4	22.5	107	113	60-140	5		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.2	103	106	60-140	3		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3		
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2		
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1		
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1		
1,3-Dichlorobenzene	ug/L	ND	20	20	21.7	21.3	109	107	60-140	2		
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1		
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	20.7	109	103	60-140	5		
2,2-Dichloropropane	ug/L	ND	20	20	23.4	22.9	117	115	60-140	2		
2-Chlorotoluene	ug/L	ND	20	20	21.7	21.4	108	107	60-140	1		
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2		
Benzene	ug/L	ND	20	20	22.0	22.0	110	110	60-140	0		
Bromobenzene	ug/L	ND	20	20	20.2	20.9	101	105	60-140	4		
Bromochloromethane	ug/L	ND	20	20	22.2	22.1	111	110	60-140	1		
Bromodichloromethane	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2		
Bromoform	ug/L	ND	20	20	17.5	18.4	87	92	60-140	5		
Bromomethane	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2		
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.8	113	119	60-140	5		
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	106	109	60-140	2		
Chloroethane	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1		
Chloroform	ug/L	ND	20	20	20.7	21.1	103	105	60-140	2		
Chloromethane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4		
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1		
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.1	22.9	111	115	60-140	4		
Dibromochloromethane	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2		
Dibromomethane	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0		
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3		
Diisopropyl ether	ug/L	ND	20	20	18.5	18.9	93	95	60-140	2		
Ethylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	60-140	2		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1		
m&p-Xylene	ug/L	ND	40	40	43.3	44.6	108	111	60-140	3		
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3		
Methylene Chloride	ug/L	ND	20	20	17.9	17.9	89	90	60-140	1		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92525132

Parameter	Units	3180668		3180669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525135001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3		
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4		
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0		
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0		
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2		
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3		
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3		
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0		
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2		
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3		
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5		
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0		
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3		
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5		
1,2-Dichloroethane-d4 (S)	%						96	96	70-130			
4-Bromofluorobenzene (S)	%						100	102	70-130			
Toluene-d8 (S)	%						97	100	70-130			

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92525132

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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.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

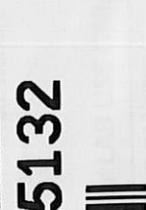
Pace Project No.: 92525132

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525132001	14226_HC_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525132001	14226_HC_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525132001	14226_HC_RD_20210302	SM 6200B	603734		

### REPORT OF LABORATORY ANALYSIS

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LAB USE ONLY  
**WO# : 92525132**



Container Pre  
**92525132**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
 Billing information:

Company:  
**Apex Companies**

Address:  
**Andrew Street**

Report To:  
**Andrew Street**

Copy To:  
**14226 Huntersville Concord Rd**

Customer Project Name/Number:  
**2020-4-248 Incident**

Phone:  
**704-248-1111**

Site/Facility ID #:  
**NC1 Huntersville**

Purchase Order #:  
**ASAP**

Turnaround Date Required:  
**ASAP**

Rush:  
 Same Day  Next Day  
 2 Day  3 Day  4 Day  5 Day  
 (Expedite Charges Apply)

Sample Disposal:  
 Dispose as appropriate  Return  
 Archive: \_\_\_\_\_  
 Hold: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID  
**14226-HC-RD-20210302**

Matrix \*  
**DW**

Comp / Grab  
**6**

Collected (or Composite Start) Date Time  
**3-2-21 0935**

Res Cl None  
**8**

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used:  
**BO**

Radchem sample(s) screened (<500 cpm): Y N NA  
 Y  N  NA

Received by/Company: (Signature)  
**NAOMI FITZ/APPEX**

Date/Time:  
**3/2/20 1705**

Received by/Company: (Signature)  
**PAUCE NULL**

Date/Time:  
**3/2/20 1705**

Received by/Company: (Signature)  
**PAUCE NULL**

Date/Time:  
**3/2/20 1705**

Customer Remarks / Special Conditions / Possible Hazards:

SHO... HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: **2616172**

Samples received via:  
 FEDEX UPS Client Courier Pace Courier  
 MTJL LAB USE ONLY

Date/Time:  
**3/2/21 1705**

Lab Profile/Line:  
 Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signature Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA Regulated Soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: **2238194** Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: Y N NA  
 Sulfide Present Y N NA  
 Lead acetate Strips: Y N NA

LAB USE ONLY:  
 Lab Sample # / Comments:  
**92525132**  
**001**

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: **9271064** Y N NA  
 Cooler 1 Temp Upon Receipt: **1.1** oC  
 Cooler 1 Therm Corr. Factor: **0.0** oC  
 Cooler 1 Corrected Temp: **1.1** oC

Comments:  
**MADEP VPH**  
**UDCS 62008**  
**Lead**

Temp Blank Received: Y N NA  
 Therm ID#: **9271064** Y N NA  
 Cooler 1 Temp Upon Receipt: **1.1** oC  
 Cooler 1 Therm Corr. Factor: **0.0** oC  
 Cooler 1 Corrected Temp: **1.1** oC

Comments:  
**MADEP VPH**  
**UDCS 62008**  
**Lead**

Temp Blank Received: Y N NA  
 Therm ID#: **9271064** Y N NA  
 Cooler 1 Temp Upon Receipt: **1.1** oC  
 Cooler 1 Therm Corr. Factor: **0.0** oC  
 Cooler 1 Corrected Temp: **1.1** oC

Comments:  
**MADEP VPH**  
**UDCS 62008**  
**Lead**

Temp Blank Received: Y N NA  
 Therm ID#: **9271064** Y N NA  
 Cooler 1 Temp Upon Receipt: **1.1** oC  
 Cooler 1 Therm Corr. Factor: **0.0** oC  
 Cooler 1 Corrected Temp: **1.1** oC

Relinquished by/Company: (Signature)  
**NAOMI FITZ/APPEX**

Date/Time:  
**3/2/20 1705**

Relinquished by/Company: (Signature)  
**PAUCE NULL**

Date/Time:  
**3/2/20 1705**



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

Project #

**WO# : 92525132**

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

PM: AMB

Due Date: 03/09/21

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

CLIENT: 92-APEX MOOR

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 Na2SO3 (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						1										7													
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).

March 15, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92526623

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526623

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
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 ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92526623

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526623001	14226_HC_RD_20210309	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526623

**Sample:** 14226\_HC\_RD\_20210309    **Lab ID:** 92526623001    Collected: 03/09/21 10:25    Received: 03/09/21 17:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEP VPH    Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 18:48	03/12/21 18:48		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 18:48	03/12/21 18:48		
Aromatic (C09-C10), Unadjusted	ND	ug/L	100	1	03/12/21 18:48	03/12/21 18:48	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 18:48	03/12/21 18:48	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.4	%	70.0-130	1	03/12/21 18:48	03/12/21 18:48	615-59-8FID	
2,5-Dibromotoluene (PID)	93.6	%	70.0-130	1	03/12/21 18:48	03/12/21 18:48	615-59-8PID	

**6010 MET ICP**

Analytical Method: EPA 6010D    Preparation Method: EPA 3010A  
Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	03/12/21 02:20	03/12/21 16:08	7439-92-1	
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**6200B MSV**

Analytical Method: SM 6200B  
Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		03/12/21 03:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 03:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 03:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 03:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 03:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 03:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 03:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 03:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 03:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 03:19	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 03:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 03:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 03:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 03:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 03:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 03:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 03:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 03:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 03:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 03:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 03:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 03:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 03:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 03:19	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526623

Sample: 14226_HC_RD_20210309	Lab ID: 92526623001	Collected: 03/09/21 10:25	Received: 03/09/21 17:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 03:19	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 03:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 03:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 03:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 03:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 03:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 03:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 03:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 03:19	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 03:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 03:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 03:19	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 03:19	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 03:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 03:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 03:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 03:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 03:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 03:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 03:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 03:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 03:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 03:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 03:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 03:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 03:19	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/12/21 03:19	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		03/12/21 03:19	460-00-4	
Toluene-d8 (S)	96	%	70-130	1		03/12/21 03:19	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526623

QC Batch: 1633636	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526623001

METHOD BLANK: R3630856-3 Matrix: Water  
Associated Lab Samples: 92526623001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/12/21 08:56	
Aliphatic (C09-C12)	ug/L	ND	100	03/12/21 08:56	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/12/21 08:56	
Total VPH	ug/L	ND	100	03/12/21 08:56	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	03/12/21 08:56	
2,5-Dibromotoluene (PID)	%	90.8	70.0-130	03/12/21 08:56	

Parameter	Units	R3630856-1		R3630856-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1310	1300	109	108	70.0-130	0.766	25
Aliphatic (C09-C12)	ug/L	1400	1660	1640	119	117	70.0-130	1.21	25
Aromatic (C09-C10),Unadjusted	ug/L	200	229	226	115	113	70.0-130	1.32	25
Total VPH	ug/L	2800	3200	3170	114	113	70.0-130	0.942	25
2,5-Dibromotoluene (FID)	%				94.3	99.6	70.0-130		
2,5-Dibromotoluene (PID)	%				93.2	97.1	70.0-130		

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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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526623

QC Batch: 606129

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526623001

METHOD BLANK: 3193371

Matrix: Water

Associated Lab Samples: 92526623001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/12/21 15:10	

LABORATORY CONTROL SAMPLE: 3193372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193373 3193374

Parameter	Units	92526300006		3193374		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	477	478	95	95	75-125	0

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: 2020-L1-2448 Incident  
Pace Project No.: 92526623

QC Batch: 605982      Analysis Method: SM 6200B  
QC Batch Method: SM 6200B      Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526623001

METHOD BLANK: 3192559      Matrix: Water

Associated Lab Samples: 92526623001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
Benzene	ug/L	ND	0.50	03/11/21 23:07	
Bromobenzene	ug/L	ND	0.50	03/11/21 23:07	
Bromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromoform	ug/L	ND	0.50	03/11/21 23:07	
Bromomethane	ug/L	ND	5.0	03/11/21 23:07	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 23:07	
Chlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
Chloroethane	ug/L	ND	1.0	03/11/21 23:07	
Chloroform	ug/L	ND	0.50	03/11/21 23:07	
Chloromethane	ug/L	ND	1.0	03/11/21 23:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Dibromomethane	ug/L	ND	0.50	03/11/21 23:07	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 23:07	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 23:07	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526623

METHOD BLANK: 3192559 Matrix: Water  
Associated Lab Samples: 92526623001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 23:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 23:07	
m&p-Xylene	ug/L	ND	1.0	03/11/21 23:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 23:07	
Methylene Chloride	ug/L	ND	2.0	03/11/21 23:07	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Naphthalene	ug/L	ND	2.0	03/11/21 23:07	
o-Xylene	ug/L	ND	0.50	03/11/21 23:07	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Styrene	ug/L	ND	0.50	03/11/21 23:07	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 23:07	
Toluene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Trichloroethene	ug/L	ND	0.50	03/11/21 23:07	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 23:07	
Vinyl chloride	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/11/21 23:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/11/21 23:07	
Toluene-d8 (S)	%	100	70-130	03/11/21 23:07	

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	60-140	
1,1,1-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,2-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	46.5	93	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	46.6	93	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.9	88	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane	ug/L	50	46.7	93	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526623

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.3	93	60-140	
1,3-Dichloropropane	ug/L	50	48.1	96	60-140	
1,4-Dichlorobenzene	ug/L	50	44.5	89	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	47.5	95	60-140	
4-Chlorotoluene	ug/L	50	44.3	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	49.5	99	60-140	
Bromochloromethane	ug/L	50	51.3	103	60-140	
Bromodichloromethane	ug/L	50	46.9	94	60-140	
Bromoform	ug/L	50	47.7	95	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	54.3	109	60-140	
Chlorobenzene	ug/L	50	47.5	95	60-140	
Chloroethane	ug/L	50	44.7	89	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	37.6	75	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	60-140	
Dibromochloromethane	ug/L	50	53.7	107	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	45.8	92	60-140	
Ethylbenzene	ug/L	50	45.5	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	60-140	
m&p-Xylene	ug/L	100	94.1	94	60-140	
Methyl-tert-butyl ether	ug/L	50	49.0	98	60-140	
Methylene Chloride	ug/L	50	45.2	90	60-140	
n-Butylbenzene	ug/L	50	42.1	84	60-140	
n-Propylbenzene	ug/L	50	44.4	89	60-140	
Naphthalene	ug/L	50	46.8	94	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	42.4	85	60-140	
Styrene	ug/L	50	48.8	98	60-140	
tert-Butylbenzene	ug/L	50	38.0	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	48.6	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	60-140	
Trichloroethene	ug/L	50	49.8	100	60-140	
Trichlorofluoromethane	ug/L	50	43.6	87	60-140	
Vinyl chloride	ug/L	50	40.1	80	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			106	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526623

Parameter	92526257003		MS	MSD	3192561		3192562		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	441	426	110	106	60-140	3			
1,1,1-Trichloroethane	ug/L	ND	400	400	439	437	110	109	60-140	0			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	420	400	105	100	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	400	400	427	400	107	100	60-140	6			
1,1-Dichloroethane	ug/L	ND	400	400	421	425	105	106	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	481	456	120	114	60-140	5			
1,1-Dichloropropene	ug/L	ND	400	400	416	421	104	105	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	327	356	82	89	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	400	400	394	378	99	95	60-140	4			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	346	361	86	90	60-140	4			
1,2,4-Trimethylbenzene	ug/L	148	400	400	537	531	97	96	60-140	1			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	424	409	106	102	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	449	416	112	104	60-140	8			
1,2-Dichlorobenzene	ug/L	ND	400	400	391	392	98	98	60-140	0			
1,2-Dichloroethane	ug/L	ND	400	400	402	411	101	103	60-140	2			
1,2-Dichloropropane	ug/L	ND	400	400	469	427	117	107	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	432	413	108	103	60-140	4			
1,3-Dichlorobenzene	ug/L	ND	400	400	410	401	103	100	60-140	2			
1,3-Dichloropropane	ug/L	ND	400	400	417	425	104	106	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	400	400	383	380	96	95	60-140	1			
2,2-Dichloropropane	ug/L	ND	400	400	355	358	89	89	60-140	1			
2-Chlorotoluene	ug/L	ND	400	400	411	417	103	104	60-140	1			
4-Chlorotoluene	ug/L	ND	400	400	399	382	100	96	60-140	4			
Benzene	ug/L	2140	400	400	2580	2600	111	114	60-140	1			
Bromobenzene	ug/L	ND	400	400	435	417	109	104	60-140	4			
Bromochloromethane	ug/L	ND	400	400	436	412	109	103	60-140	6			
Bromodichloromethane	ug/L	ND	400	400	419	405	105	101	60-140	4			
Bromoform	ug/L	ND	400	400	381	362	95	91	60-140	5			
Bromomethane	ug/L	ND	400	400	466	515	117	129	60-140	10			
Carbon tetrachloride	ug/L	ND	400	400	449	434	112	108	60-140	4			
Chlorobenzene	ug/L	ND	400	400	441	427	110	107	60-140	3			
Chloroethane	ug/L	ND	400	400	405	390	101	98	60-140	4			
Chloroform	ug/L	ND	400	400	438	424	109	106	60-140	3			
Chloromethane	ug/L	ND	400	400	366	367	92	92	60-140	0			
cis-1,2-Dichloroethene	ug/L	ND	400	400	406	409	101	102	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	433	421	108	105	60-140	3			
Dibromochloromethane	ug/L	ND	400	400	442	426	110	106	60-140	4			
Dibromomethane	ug/L	ND	400	400	442	444	110	111	60-140	1			
Dichlorodifluoromethane	ug/L	ND	400	400	404	390	101	97	60-140	4			
Diisopropyl ether	ug/L	227	400	400	627	627	100	100	60-140	0			
Ethylbenzene	ug/L	151	400	400	579	569	107	105	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	384	395	96	99	60-140	3			
Isopropylbenzene (Cumene)	ug/L	ND	400	400	429	410	107	103	60-140	5			
m&p-Xylene	ug/L	838	800	800	1750	1730	115	112	60-140	1			
Methyl-tert-butyl ether	ug/L	65.7	400	400	477	466	103	100	60-140	2			
Methylene Chloride	ug/L	ND	400	400	414	407	98	96	60-140	2			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526623

Parameter	92526257003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	369	356	92	89	60-140	4				
n-Propylbenzene	ug/L	ND	400	400	413	396	103	99	60-140	4				
Naphthalene	ug/L	155	400	400	394	411	60	64	60-140	4				
o-Xylene	ug/L	465	400	400	915	910	113	111	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	408	389	102	97	60-140	5				
Styrene	ug/L	ND	400	400	424	411	106	103	60-140	3				
tert-Butylbenzene	ug/L	ND	400	400	367	349	92	87	60-140	5				
Tetrachloroethene	ug/L	ND	400	400	421	414	105	104	60-140	2				
Toluene	ug/L	2440	400	400	2870	2880	109	109	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	400	400	424	418	106	104	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	400	400	417	413	104	103	60-140	1				
Trichloroethene	ug/L	ND	400	400	451	427	113	107	60-140	6				
Trichlorofluoromethane	ug/L	ND	400	400	446	440	112	110	60-140	1				
Vinyl chloride	ug/L	ND	400	400	405	404	101	101	60-140	0				
1,2-Dichloroethane-d4 (S)	%						98	97	70-130					
4-Bromofluorobenzene (S)	%						99	99	70-130					
Toluene-d8 (S)	%						99	97	70-130					

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526623

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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.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92526623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526623001	14226_HC_RD_20210309	MADEPV	1633636	MADEP VPH	1633636
92526623001	14226_HC_RD_20210309	EPA 3010A	606129	EPA 6010D	606150
92526623001	14226_HC_RD_20210309	SM 6200B	605982		

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**Chain-Of-Custody Analytical Request Document**  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: *Pace Analytical*  
 Address: *Apex Companies*  
 Report To: *Andrew Street*  
 Copy To: *Andrew Street*  
 Customer Project Name/Number: *2020-LI-2448 Incident*  
 Site/Facility ID #: \_\_\_\_\_  
 Purchased By (print): *Naomi Felt*  
 Turnaround Date Required: *ASAP*  
 Sample Disposal: \_\_\_\_\_  
 \* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), W/pe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Billing Information:  
 Email To: *Andrew.Street@apex.com*  
 Site Collection Info/Address: *14226 Huntersville Concord Rd*  
 State: *NC* County/City: *Huntersville*  
 Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET  
 Compliance Monitoring? [ ] Yes [ ] No  
 DW PWS ID #: \_\_\_\_\_  
 DW Location Code: \_\_\_\_\_  
 Immediately Packed on Ice: [ ] Yes [ ] No  
 Field Filtered (if applicable): [ ] Yes [ ] No  
 Analysis: \_\_\_\_\_  
 Collected (or Composite Start) Date: *3-9-21* Time: *10:25*  
 Composite End Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Matrix #: *DW*  
 Comp / Grab: *G*  
 Res CI: *8*

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Composite End Date	Time	Res CI	# of Ctns
14226-NC-RD-20210319	DW	G	3-9-21	10:25			8

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used:  Wet  Blue  Dry  None  
 Packing Material Used: *bubble bag*  
 Radchem sample(s) screened (<500 cpm): *1* N  NA   
 Date/Time: *3-9-21 17:55* Received by/Company: (Signature) *HO PACE AVL*  
 Date/Time: \_\_\_\_\_ Received by/Company: (Signature)  
 Date/Time: \_\_\_\_\_ Received by/Company: (Signature)  
 Date/Time: \_\_\_\_\_ Received by/Company: (Signature)

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or  
**WO#: 92526623**  
 Container:  
 \*\* Preservative Types: (1) ni, \_\_\_\_\_ acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other  
**92526623**

Analyses

Lab Profile/Line:	Lab Sample Receipt Checklist:
UOCs 6200B	Custody Seals Present/Intact Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
MMWP VPH	Custody Signatures Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Lead	Collector Signatures Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	Bottles Intact Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	Correct Bottles Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	Sufficient Volume Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	VQA - Headspace Acceptable Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	USDA Regulated Soils Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	Samples in Holding Time Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	Residual Chlorine Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	Cl Strips: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	Sample pH Acceptable Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	pH Strips: <i>22.8 MAV</i> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	Sulfide Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	Lead Acetate Strips: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
	LAB USE ONLY:
	Lab Sample # / Comments: <i>92526623 001</i>

SHORT HOLDS PRESENT (<72 hours): Y  N  N/A  
 Lab Tracking #: *2615866*  
 Samples received via: FEDEX  UPS  Client   
 Date/Time: *3/9/21 07:55*  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 MTJL LAB USE ONLY  
 Table #: \_\_\_\_\_  
 Acctnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_  
 Lab Sample Temperature Info:  
 Temp Blank Received: \_\_\_\_\_  
 Therm ID#: *9250042* N  NA   
 Cooler 1 Temp Upon Receipt: *20.8* °C  
 Cooler 1 Therm Corr. Factor: *0.1* °C  
 Cooler 1 Corrected Temp: *20.9* °C  
 Comments:  
 Trip Blank Received: Y  N  NA  
 HCL MeOH TSP Other  
 Non Conformance(s):  
 YES  NO   
 Page: \_\_\_\_\_ of: \_\_\_\_\_

March 23, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92527853

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Matt Teixeira, Apex Companies, LLC  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527853

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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  
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 ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92527853

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527853001	14226_HC_RD_20210316	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527853

Sample: 14226_HC_RD_20210316	Lab ID: 92527853001	Collected: 03/16/21 09:15	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/18/21 03:41		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/18/21 03:41		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/18/21 03:41		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/18/21 03:41		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	110	%	70-130	1		03/18/21 03:41	460-00-4	
4-Bromofluorobenzene (PID) (S)	105	%	70-130	1		03/18/21 03:41	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 16:09	03/18/21 22:14	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/19/21 19:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/19/21 19:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/19/21 19:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/19/21 19:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/19/21 19:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/19/21 19:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/19/21 19:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/19/21 19:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/19/21 19:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/19/21 19:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/19/21 19:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/19/21 19:15	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/19/21 19:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/19/21 19:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 19:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 19:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/19/21 19:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/19/21 19:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/19/21 19:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/19/21 19:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 19:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 19:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 19:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/19/21 19:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/19/21 19:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/19/21 19:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/19/21 19:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 19:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 19:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 19:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/19/21 19:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 19:15	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527853

Sample: 14226_HC_RD_20210316	Lab ID: 92527853001	Collected: 03/16/21 09:15	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/19/21 19:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 19:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 19:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/19/21 19:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/19/21 19:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/19/21 19:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/19/21 19:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/19/21 19:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/19/21 19:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/19/21 19:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/19/21 19:15	103-65-1	
Styrene	ND	ug/L	0.50	1		03/19/21 19:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 19:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 19:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/19/21 19:15	127-18-4	
Toluene	ND	ug/L	0.50	1		03/19/21 19:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 19:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 19:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/19/21 19:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/19/21 19:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/19/21 19:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/19/21 19:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/19/21 19:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 19:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 19:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/19/21 19:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/19/21 19:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/19/21 19:15	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/19/21 19:15	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/19/21 19:15	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/19/21 19:15	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527853

QC Batch: 607250

Analysis Method: MADEP VPH

QC Batch Method: MADEP VPH

Analysis Description: VPH NC Water

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527853001

METHOD BLANK: 3199083

Matrix: Water

Associated Lab Samples: 92527853001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/17/21 15:18	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/17/21 15:18	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/17/21 15:18	N2
4-Bromofluorobenzene (FID) (S)	%	110	70-130	03/17/21 15:18	
4-Bromofluorobenzene (PID) (S)	%	104	70-130	03/17/21 15:18	

LABORATORY CONTROL SAMPLE & LCSD: 3199084

3199085

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	331	354	110	118	70-130	7	25	N2
Aliphatic (C09-C12)	ug/L	300	349	357	116	119	70-130	2	25	N2
Aromatic (C09-C10)	ug/L	100	100	103	100	103	70-130	3	25	N2
4-Bromofluorobenzene (FID) (S)	%				108	115	70-130			
4-Bromofluorobenzene (PID) (S)	%				102	109	70-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527853

QC Batch: 607152	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92527853001

METHOD BLANK: 3198608 Matrix: Water  
Associated Lab Samples: 92527853001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/18/21 22:07	

LABORATORY CONTROL SAMPLE: 3198609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198630 3198631

Parameter	Units	92527853001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Lead	ug/L	ND	500	500	499	498	99	99	75-125	0	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527853

QC Batch: 607693      Analysis Method: SM 6200B  
QC Batch Method: SM 6200B      Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527853001

METHOD BLANK: 3201474      Matrix: Water  
Associated Lab Samples: 92527853001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/19/21 13:20	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/19/21 13:20	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/19/21 13:20	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
1,3-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
2,2-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
2-Chlorotoluene	ug/L	ND	0.50	03/19/21 13:20	
4-Chlorotoluene	ug/L	ND	0.50	03/19/21 13:20	
Benzene	ug/L	ND	0.50	03/19/21 13:20	
Bromobenzene	ug/L	ND	0.50	03/19/21 13:20	
Bromochloromethane	ug/L	ND	0.50	03/19/21 13:20	
Bromodichloromethane	ug/L	ND	0.50	03/19/21 13:20	
Bromoform	ug/L	ND	0.50	03/19/21 13:20	
Bromomethane	ug/L	ND	5.0	03/19/21 13:20	
Carbon tetrachloride	ug/L	ND	0.50	03/19/21 13:20	
Chlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
Chloroethane	ug/L	ND	1.0	03/19/21 13:20	
Chloroform	ug/L	ND	0.50	03/19/21 13:20	
Chloromethane	ug/L	ND	1.0	03/19/21 13:20	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
Dibromochloromethane	ug/L	ND	0.50	03/19/21 13:20	
Dibromomethane	ug/L	ND	0.50	03/19/21 13:20	
Dichlorodifluoromethane	ug/L	ND	0.50	03/19/21 13:20	
Diisopropyl ether	ug/L	ND	0.50	03/19/21 13:20	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527853

METHOD BLANK: 3201474 Matrix: Water  
Associated Lab Samples: 92527853001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/19/21 13:20	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/19/21 13:20	
m&p-Xylene	ug/L	ND	1.0	03/19/21 13:20	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/19/21 13:20	
Methylene Chloride	ug/L	ND	2.0	03/19/21 13:20	
n-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
n-Propylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Naphthalene	ug/L	ND	2.0	03/19/21 13:20	
o-Xylene	ug/L	ND	0.50	03/19/21 13:20	
sec-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Styrene	ug/L	ND	0.50	03/19/21 13:20	
tert-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Tetrachloroethene	ug/L	ND	0.50	03/19/21 13:20	
Toluene	ug/L	ND	0.50	03/19/21 13:20	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
Trichloroethene	ug/L	ND	0.50	03/19/21 13:20	
Trichlorofluoromethane	ug/L	ND	1.0	03/19/21 13:20	
Vinyl chloride	ug/L	ND	1.0	03/19/21 13:20	
1,2-Dichloroethane-d4 (S)	%	102	70-130	03/19/21 13:20	
4-Bromofluorobenzene (S)	%	104	70-130	03/19/21 13:20	
Toluene-d8 (S)	%	102	70-130	03/19/21 13:20	

LABORATORY CONTROL SAMPLE: 3201475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.2	108	60-140	
1,1,1-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	53.4	107	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	51.0	102	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.0	106	60-140	
1,2,3-Trichloropropane	ug/L	50	53.4	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.4	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.6	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.0	112	60-140	
1,2-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,2-Dichloroethane	ug/L	50	51.3	103	60-140	
1,2-Dichloropropane	ug/L	50	50.8	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.5	101	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527853

LABORATORY CONTROL SAMPLE: 3201475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.1	98	60-140	
1,3-Dichloropropane	ug/L	50	51.9	104	60-140	
1,4-Dichlorobenzene	ug/L	50	48.6	97	60-140	
2,2-Dichloropropane	ug/L	50	50.7	101	60-140	
2-Chlorotoluene	ug/L	50	49.3	99	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	49.8	100	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	51.0	102	60-140	
Bromodichloromethane	ug/L	50	52.3	105	60-140	
Bromoform	ug/L	50	43.0	86	60-140	
Bromomethane	ug/L	50	40.1	80	60-140	
Carbon tetrachloride	ug/L	50	53.0	106	60-140	
Chlorobenzene	ug/L	50	50.7	101	60-140	
Chloroethane	ug/L	50	42.1	84	60-140	
Chloroform	ug/L	50	47.6	95	60-140	
Chloromethane	ug/L	50	36.2	72	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.2	108	60-140	
Dibromochloromethane	ug/L	50	54.3	109	60-140	
Dibromomethane	ug/L	50	53.4	107	60-140	
Dichlorodifluoromethane	ug/L	50	44.4	89	60-140	
Diisopropyl ether	ug/L	50	48.3	97	60-140	
Ethylbenzene	ug/L	50	50.4	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.3	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.1	100	60-140	
Methylene Chloride	ug/L	50	44.8	90	60-140	
n-Butylbenzene	ug/L	50	54.6	109	60-140	
n-Propylbenzene	ug/L	50	48.6	97	60-140	
Naphthalene	ug/L	50	50.5	101	60-140	
o-Xylene	ug/L	50	52.5	105	60-140	
sec-Butylbenzene	ug/L	50	49.7	99	60-140	
Styrene	ug/L	50	51.5	103	60-140	
tert-Butylbenzene	ug/L	50	41.0	82	60-140	
Tetrachloroethene	ug/L	50	50.7	101	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	60-140	
Trichloroethene	ug/L	50	51.1	102	60-140	
Trichlorofluoromethane	ug/L	50	46.0	92	60-140	
Vinyl chloride	ug/L	50	41.5	83	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527853

Parameter	92527515019		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	24.0	21.7	120	109	60-140	10				
1,1,1-Trichloroethane	ug/L	ND	20	20	25.2	23.9	126	120	60-140	5				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	23.3	21.7	117	108	60-140	7				
1,1,2-Trichloroethane	ug/L	ND	20	20	24.5	22.9	122	115	60-140	6				
1,1-Dichloroethane	ug/L	ND	20	20	24.4	22.8	122	114	60-140	7				
1,1-Dichloroethene	ug/L	ND	20	20	26.3	24.4	132	122	60-140	7				
1,1-Dichloropropene	ug/L	ND	20	20	25.3	24.0	127	120	60-140	5				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	20.6	100	103	60-140	3				
1,2,3-Trichloropropane	ug/L	ND	20	20	24.2	22.2	121	111	60-140	9				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.6	20.5	103	103	60-140	1				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.3	20.0	107	100	60-140	7				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.8	20.5	114	103	60-140	11				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	23.9	22.8	120	114	60-140	5				
1,2-Dichlorobenzene	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3				
1,2-Dichloroethane	ug/L	ND	20	20	25.5	23.7	128	118	60-140	8				
1,2-Dichloropropane	ug/L	ND	20	20	23.5	22.8	118	114	60-140	3				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.5	20.0	107	100	60-140	7				
1,3-Dichlorobenzene	ug/L	ND	20	20	21.4	19.6	107	98	60-140	9				
1,3-Dichloropropane	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5				
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	19.4	101	97	60-140	5				
2,2-Dichloropropane	ug/L	ND	20	20	25.6	24.1	128	120	60-140	6				
2-Chlorotoluene	ug/L	ND	20	20	21.4	20.0	107	100	60-140	7				
4-Chlorotoluene	ug/L	ND	20	20	20.5	19.2	102	96	60-140	7				
Benzene	ug/L	ND	20	20	24.1	22.6	120	113	60-140	6				
Bromobenzene	ug/L	ND	20	20	20.8	19.4	104	97	60-140	7				
Bromochloromethane	ug/L	ND	20	20	25.2	24.3	126	121	60-140	4				
Bromodichloromethane	ug/L	ND	20	20	23.5	22.7	117	113	60-140	3				
Bromoform	ug/L	ND	20	20	20.2	19.1	101	96	60-140	5				
Bromomethane	ug/L	ND	20	20	19.3	18.9	97	94	60-140	3				
Carbon tetrachloride	ug/L	ND	20	20	25.9	25.4	129	127	60-140	2				
Chlorobenzene	ug/L	ND	20	20	22.9	21.1	114	106	60-140	8				
Chloroethane	ug/L	ND	20	20	24.8	21.3	124	106	60-140	15				
Chloroform	ug/L	ND	20	20	25.0	23.4	125	117	60-140	7				
Chloromethane	ug/L	ND	20	20	17.5	17.6	88	88	60-140	1				
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.7	22.7	118	114	60-140	4				
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	23.2	122	116	60-140	5				
Dibromochloromethane	ug/L	ND	20	20	23.8	22.5	119	113	60-140	5				
Dibromomethane	ug/L	ND	20	20	24.1	23.8	120	119	60-140	1				
Dichlorodifluoromethane	ug/L	ND	20	20	22.8	21.4	114	107	60-140	6				
Diisopropyl ether	ug/L	ND	20	20	23.6	21.7	118	109	60-140	8				
Ethylbenzene	ug/L	ND	20	20	22.1	21.3	111	106	60-140	4				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.8	22.5	109	113	60-140	3				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4				
m&p-Xylene	ug/L	ND	40	40	44.1	42.5	110	106	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	20	20	23.3	21.7	116	108	60-140	7				
Methylene Chloride	ug/L	ND	20	20	23.2	21.4	116	107	60-140	8				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527853

Parameter	92527515019		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
n-Butylbenzene	ug/L	ND	20	20	21.7	21.8	109	109	60-140	1				
n-Propylbenzene	ug/L	ND	20	20	20.7	19.7	103	98	60-140	5				
Naphthalene	ug/L	ND	20	20	19.6	19.5	98	97	60-140	1				
o-Xylene	ug/L	ND	20	20	23.1	21.5	115	108	60-140	7				
sec-Butylbenzene	ug/L	ND	20	20	21.5	20.9	108	105	60-140	3				
Styrene	ug/L	ND	20	20	22.0	20.7	110	104	60-140	6				
tert-Butylbenzene	ug/L	ND	20	20	17.8	17.0	89	85	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	22.0	21.7	110	109	60-140	1				
Toluene	ug/L	ND	20	20	23.1	22.2	115	111	60-140	4				
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.9	23.0	125	115	60-140	8				
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.9	22.3	120	111	60-140	7				
Trichloroethene	ug/L	ND	20	20	24.6	22.9	123	115	60-140	7				
Trichlorofluoromethane	ug/L	ND	20	20	24.1	23.1	121	115	60-140	4				
Vinyl chloride	ug/L	ND	20	20	21.1	20.2	106	101	60-140	5				
1,2-Dichloroethane-d4 (S)	%						103	104	70-130					
4-Bromofluorobenzene (S)	%						100	101	70-130					
Toluene-d8 (S)	%						99	99	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527853

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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.

### ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92527853

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92527853001	14226_HC_RD_20210316	MADEP VPH	607250		
92527853001	14226_HC_RD_20210316	EPA 3010A	607152	EPA 6010D	607431
92527853001	14226_HC_RD_20210316	SM 6200B	607693		

### REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Pace Companies  
 Address: \_\_\_\_\_  
 Billing Information: \_\_\_\_\_

Report To: Andrew Short  
 Copy To: \_\_\_\_\_  
 Email: \_\_\_\_\_

Customer Project Name/Number: 2020-11-2448 Incident  
 Site/Facility ID #: \_\_\_\_\_  
 State: \_\_\_\_\_ County/City: \_\_\_\_\_ Time Zone Collected: \_\_\_\_\_

Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Collected By (print): Alanna Fritz  
 Collected By (signature): \_\_\_\_\_  
 Sample Disposal: Alanna Fritz

Purchase Order #: \_\_\_\_\_  
 Quote #: \_\_\_\_\_  
 Turnaround Date Required: ABAP

Rush:  Same Day  Next Day  
 12 Day  13 Day  14 Day  15 Day  
 (Expedite Charges Apply)

Field Filtered (if applicable):  Yes  No  
 Analysis: \_\_\_\_\_

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chgs
			Date	Time	Date	Time		
<u>H226-NL-PD-20210316</u>	<u>DW</u>	<u>G</u>	<u>3-16-21</u>	<u>0915</u>				<u>8</u>

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: BB

Radchem sample(s) screened (<500 cpm): Y N NA

Reinquired by/Company: (Signature) \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Received by/Company: (Signature) \_\_\_\_\_  
 Date/Time: \_\_\_\_\_



Workorder Number or  
**W0#: 92527853**  
 SE ONLY  
 Pager: \_\_\_\_\_

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other \_\_\_\_\_

Lab Profile/Line:	Lab Sample Receipt Checklist:	Temp Blank Received:	Therm ID#:	Cooler 1 Temp Upon Receipt:	Corr Factor:	Cooler 1 Corrected Temp:	Comments:
<u>92527853</u>	Custody Seals Present/Intact: <u>Y</u> <u>NA</u> Custody Signatures Present: <u>Y</u> <u>NA</u> Collector Signature Present: <u>Y</u> <u>NA</u> Bottles Intact: <u>Y</u> <u>NA</u> Correct Bottles: <u>Y</u> <u>NA</u> Sufficient Volume: <u>Y</u> <u>NA</u> Samples Received on Ice: <u>Y</u> <u>NA</u> VOA - Headspace Acceptable: <u>Y</u> <u>NA</u> USDA Regulated Soils: <u>Y</u> <u>NA</u> Samples in Holding Time: <u>Y</u> <u>NA</u> Residual Chlorine Present: <u>Y</u> <u>NA</u> CI Strips: <u>Y</u> <u>NA</u> Sample pH Acceptable: <u>Y</u> <u>NA</u> Sulfide Present: <u>Y</u> <u>NA</u> Lead Acetate Strips: <u>Y</u> <u>NA</u>	<u>Y</u>	<u>084</u>	<u>1.1</u>	<u>0.0</u>	<u>0.7</u>	<u>OC</u>

Lab Tracking #: 2615898

SHORT HOLDS PRESENT (<72 hours): Y N NA

Samples received via: Client

FEDEX UPS \_\_\_\_\_ Courier \_\_\_\_\_ Pace Courier \_\_\_\_\_

MTLL LAB USE ONLY

Table #: \_\_\_\_\_  
 Actnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_



Document Name: \_\_\_\_\_  
 Document No.: F-CAR-CS-033-Rev.07  
 Sample Condition Upon Receipt(SCUR)  
 Issuing Authority: \_\_\_\_\_  
 Page 2 of 2  
 document revised: October 28, 2020

Project: **MO# : 92527853**

PM: AMB Due Date: 03/23/21  
 CLIENT: 92-APPEX MOOR

\*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, LTHg

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

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.

Item#	1	2	3	4	5	6	7	8	9	10	11	12
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)-S03S 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)	/	/	/	/	/	/	/	/	/	/	/	/

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

**pH Adjustment Log for Preserved Samples**

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.

March 23, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92527887

Dear Andrew Street:

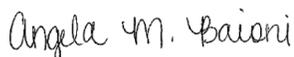
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Matt Teixeira, Apex Companies, LLC  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

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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  
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 ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527887

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527887001	DUP-1	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92527887002	FB-1	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92527887003	TRIP BLANK	SM 6200B	PM1	63	PASI-C

PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

Sample: DUP-1	Lab ID: 92527887001	Collected: 03/16/21 00:00	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/18/21 07:28		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/18/21 07:28		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/18/21 07:28		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/18/21 07:28		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	109	%	70-130	1		03/18/21 07:28	460-00-4	
4-Bromofluorobenzene (PID) (S)	104	%	70-130	1		03/18/21 07:28	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 16:09	03/18/21 23:19	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/19/21 20:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/19/21 20:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/19/21 20:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/19/21 20:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/19/21 20:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/19/21 20:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/19/21 20:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/19/21 20:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/19/21 20:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/19/21 20:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/19/21 20:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 20:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 20:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/19/21 20:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/19/21 20:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/19/21 20:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/19/21 20:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/19/21 20:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/19/21 20:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/19/21 20:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:43	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

Sample: DUP-1	Lab ID: 92527887001	Collected: 03/16/21 00:00	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/19/21 20:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/19/21 20:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/19/21 20:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/19/21 20:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/19/21 20:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/19/21 20:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/19/21 20:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/19/21 20:43	103-65-1	
Styrene	ND	ug/L	0.50	1		03/19/21 20:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 20:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 20:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/19/21 20:43	127-18-4	
Toluene	ND	ug/L	0.50	1		03/19/21 20:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 20:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 20:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/19/21 20:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/19/21 20:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/19/21 20:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/19/21 20:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/19/21 20:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 20:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 20:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/19/21 20:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/19/21 20:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/19/21 20:43	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/19/21 20:43	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/19/21 20:43	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/19/21 20:43	2037-26-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

Sample: FB-1	Lab ID: 92527887002	Collected: 03/16/21 00:00	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/18/21 03:12		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/18/21 03:12		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/18/21 03:12		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/18/21 03:12		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	112	%	70-130	1		03/18/21 03:12	460-00-4	
4-Bromofluorobenzene (PID) (S)	107	%	70-130	1		03/18/21 03:12	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 16:09	03/18/21 23:22	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/19/21 17:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/19/21 17:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/19/21 17:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/19/21 17:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/19/21 17:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/19/21 17:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/19/21 17:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/19/21 17:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/19/21 17:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/19/21 17:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/19/21 17:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/19/21 17:45	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/19/21 17:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/19/21 17:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 17:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 17:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/19/21 17:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/19/21 17:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/19/21 17:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/19/21 17:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 17:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 17:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 17:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/19/21 17:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/19/21 17:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/19/21 17:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/19/21 17:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 17:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 17:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 17:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/19/21 17:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 17:45	594-20-7	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

Sample: <b>FB-1</b>	Lab ID: <b>92527887002</b>	Collected: 03/16/21 00:00	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/19/21 17:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 17:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 17:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/19/21 17:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/19/21 17:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/19/21 17:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/19/21 17:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/19/21 17:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/19/21 17:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/19/21 17:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/19/21 17:45	103-65-1	
Styrene	ND	ug/L	0.50	1		03/19/21 17:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 17:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 17:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/19/21 17:45	127-18-4	
Toluene	ND	ug/L	0.50	1		03/19/21 17:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 17:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 17:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/19/21 17:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/19/21 17:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/19/21 17:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/19/21 17:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/19/21 17:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 17:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 17:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/19/21 17:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/19/21 17:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/19/21 17:45	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/19/21 17:45	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/19/21 17:45	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/19/21 17:45	2037-26-5	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

Sample: TRIP BLANK	Lab ID: 92527887003	Collected: 03/16/21 00:00	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/19/21 17:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/19/21 17:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/19/21 17:28	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/19/21 17:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/19/21 17:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/19/21 17:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/19/21 17:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/19/21 17:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/19/21 17:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/19/21 17:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/19/21 17:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/19/21 17:28	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/19/21 17:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/19/21 17:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 17:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 17:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/19/21 17:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/19/21 17:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/19/21 17:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/19/21 17:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 17:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 17:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 17:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/19/21 17:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/19/21 17:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/19/21 17:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/19/21 17:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 17:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 17:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 17:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/19/21 17:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 17:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/19/21 17:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 17:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 17:28	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/19/21 17:28	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/19/21 17:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/19/21 17:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/19/21 17:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/19/21 17:28	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/19/21 17:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/19/21 17:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/19/21 17:28	103-65-1	
Styrene	ND	ug/L	0.50	1		03/19/21 17:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 17:28	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 17:28	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

Sample: <b>TRIP BLANK</b>	Lab ID: <b>92527887003</b>	Collected: 03/16/21 00:00	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/19/21 17:28	127-18-4	
Toluene	ND	ug/L	0.50	1		03/19/21 17:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 17:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 17:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/19/21 17:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/19/21 17:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/19/21 17:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/19/21 17:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/19/21 17:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 17:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 17:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/19/21 17:28	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/19/21 17:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/19/21 17:28	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/19/21 17:28	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/19/21 17:28	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/19/21 17:28	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

QC Batch: 607250	Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH	Analysis Description: VPH NC Water
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527887001, 92527887002

METHOD BLANK: 3199083 Matrix: Water

Associated Lab Samples: 92527887001, 92527887002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/17/21 15:18	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/17/21 15:18	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/17/21 15:18	N2
4-Bromofluorobenzene (FID) (S)	%	110	70-130	03/17/21 15:18	
4-Bromofluorobenzene (PID) (S)	%	104	70-130	03/17/21 15:18	

LABORATORY CONTROL SAMPLE & LCSD: 3199084

3199085

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	331	354	110	118	70-130	7	25	N2
Aliphatic (C09-C12)	ug/L	300	349	357	116	119	70-130	2	25	N2
Aromatic (C09-C10)	ug/L	100	100	103	100	103	70-130	3	25	N2
4-Bromofluorobenzene (FID) (S)	%				108	115	70-130			
4-Bromofluorobenzene (PID) (S)	%				102	109	70-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

QC Batch: 607152

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92527887001, 92527887002

METHOD BLANK: 3198608

Matrix: Water

Associated Lab Samples: 92527887001, 92527887002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/18/21 22:07	

LABORATORY CONTROL SAMPLE: 3198609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198630 3198631

Parameter	Units	92527853001		3198631		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	499	498	99	99	75-125	0

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

QC Batch: 607693

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527887001, 92527887002, 92527887003

METHOD BLANK: 3201474

Matrix: Water

Associated Lab Samples: 92527887001, 92527887002, 92527887003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
1,1-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/19/21 13:20	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/19/21 13:20	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/19/21 13:20	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichloroethane	ug/L	ND	0.50	03/19/21 13:20	
1,2-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
1,3-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
2,2-Dichloropropane	ug/L	ND	0.50	03/19/21 13:20	
2-Chlorotoluene	ug/L	ND	0.50	03/19/21 13:20	
4-Chlorotoluene	ug/L	ND	0.50	03/19/21 13:20	
Benzene	ug/L	ND	0.50	03/19/21 13:20	
Bromobenzene	ug/L	ND	0.50	03/19/21 13:20	
Bromochloromethane	ug/L	ND	0.50	03/19/21 13:20	
Bromodichloromethane	ug/L	ND	0.50	03/19/21 13:20	
Bromoform	ug/L	ND	0.50	03/19/21 13:20	
Bromomethane	ug/L	ND	5.0	03/19/21 13:20	
Carbon tetrachloride	ug/L	ND	0.50	03/19/21 13:20	
Chlorobenzene	ug/L	ND	0.50	03/19/21 13:20	
Chloroethane	ug/L	ND	1.0	03/19/21 13:20	
Chloroform	ug/L	ND	0.50	03/19/21 13:20	
Chloromethane	ug/L	ND	1.0	03/19/21 13:20	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
Dibromochloromethane	ug/L	ND	0.50	03/19/21 13:20	
Dibromomethane	ug/L	ND	0.50	03/19/21 13:20	
Dichlorodifluoromethane	ug/L	ND	0.50	03/19/21 13:20	
Diisopropyl ether	ug/L	ND	0.50	03/19/21 13:20	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

METHOD BLANK: 3201474

Matrix: Water

Associated Lab Samples: 92527887001, 92527887002, 92527887003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/19/21 13:20	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/19/21 13:20	
m&p-Xylene	ug/L	ND	1.0	03/19/21 13:20	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/19/21 13:20	
Methylene Chloride	ug/L	ND	2.0	03/19/21 13:20	
n-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
n-Propylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Naphthalene	ug/L	ND	2.0	03/19/21 13:20	
o-Xylene	ug/L	ND	0.50	03/19/21 13:20	
sec-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Styrene	ug/L	ND	0.50	03/19/21 13:20	
tert-Butylbenzene	ug/L	ND	0.50	03/19/21 13:20	
Tetrachloroethene	ug/L	ND	0.50	03/19/21 13:20	
Toluene	ug/L	ND	0.50	03/19/21 13:20	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 13:20	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 13:20	
Trichloroethene	ug/L	ND	0.50	03/19/21 13:20	
Trichlorofluoromethane	ug/L	ND	1.0	03/19/21 13:20	
Vinyl chloride	ug/L	ND	1.0	03/19/21 13:20	
1,2-Dichloroethane-d4 (S)	%	102	70-130	03/19/21 13:20	
4-Bromofluorobenzene (S)	%	104	70-130	03/19/21 13:20	
Toluene-d8 (S)	%	102	70-130	03/19/21 13:20	

LABORATORY CONTROL SAMPLE: 3201475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.2	108	60-140	
1,1,1-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	53.4	107	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	51.0	102	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.0	106	60-140	
1,2,3-Trichloropropane	ug/L	50	53.4	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.4	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.6	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.0	112	60-140	
1,2-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,2-Dichloroethane	ug/L	50	51.3	103	60-140	
1,2-Dichloropropane	ug/L	50	50.8	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.5	101	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

LABORATORY CONTROL SAMPLE: 3201475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.1	98	60-140	
1,3-Dichloropropane	ug/L	50	51.9	104	60-140	
1,4-Dichlorobenzene	ug/L	50	48.6	97	60-140	
2,2-Dichloropropane	ug/L	50	50.7	101	60-140	
2-Chlorotoluene	ug/L	50	49.3	99	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	49.8	100	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	51.0	102	60-140	
Bromodichloromethane	ug/L	50	52.3	105	60-140	
Bromoform	ug/L	50	43.0	86	60-140	
Bromomethane	ug/L	50	40.1	80	60-140	
Carbon tetrachloride	ug/L	50	53.0	106	60-140	
Chlorobenzene	ug/L	50	50.7	101	60-140	
Chloroethane	ug/L	50	42.1	84	60-140	
Chloroform	ug/L	50	47.6	95	60-140	
Chloromethane	ug/L	50	36.2	72	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.2	108	60-140	
Dibromochloromethane	ug/L	50	54.3	109	60-140	
Dibromomethane	ug/L	50	53.4	107	60-140	
Dichlorodifluoromethane	ug/L	50	44.4	89	60-140	
Diisopropyl ether	ug/L	50	48.3	97	60-140	
Ethylbenzene	ug/L	50	50.4	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.3	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.1	100	60-140	
Methylene Chloride	ug/L	50	44.8	90	60-140	
n-Butylbenzene	ug/L	50	54.6	109	60-140	
n-Propylbenzene	ug/L	50	48.6	97	60-140	
Naphthalene	ug/L	50	50.5	101	60-140	
o-Xylene	ug/L	50	52.5	105	60-140	
sec-Butylbenzene	ug/L	50	49.7	99	60-140	
Styrene	ug/L	50	51.5	103	60-140	
tert-Butylbenzene	ug/L	50	41.0	82	60-140	
Tetrachloroethene	ug/L	50	50.7	101	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	60-140	
Trichloroethene	ug/L	50	51.1	102	60-140	
Trichlorofluoromethane	ug/L	50	46.0	92	60-140	
Vinyl chloride	ug/L	50	41.5	83	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

Parameter	92527515019		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	24.0	21.7	120	109	60-140	10				
1,1,1-Trichloroethane	ug/L	ND	20	20	25.2	23.9	126	120	60-140	5				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	23.3	21.7	117	108	60-140	7				
1,1,2-Trichloroethane	ug/L	ND	20	20	24.5	22.9	122	115	60-140	6				
1,1-Dichloroethane	ug/L	ND	20	20	24.4	22.8	122	114	60-140	7				
1,1-Dichloroethene	ug/L	ND	20	20	26.3	24.4	132	122	60-140	7				
1,1-Dichloropropene	ug/L	ND	20	20	25.3	24.0	127	120	60-140	5				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	20.6	100	103	60-140	3				
1,2,3-Trichloropropane	ug/L	ND	20	20	24.2	22.2	121	111	60-140	9				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.6	20.5	103	103	60-140	1				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.3	20.0	107	100	60-140	7				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.8	20.5	114	103	60-140	11				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	23.9	22.8	120	114	60-140	5				
1,2-Dichlorobenzene	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3				
1,2-Dichloroethane	ug/L	ND	20	20	25.5	23.7	128	118	60-140	8				
1,2-Dichloropropane	ug/L	ND	20	20	23.5	22.8	118	114	60-140	3				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.5	20.0	107	100	60-140	7				
1,3-Dichlorobenzene	ug/L	ND	20	20	21.4	19.6	107	98	60-140	9				
1,3-Dichloropropane	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5				
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	19.4	101	97	60-140	5				
2,2-Dichloropropane	ug/L	ND	20	20	25.6	24.1	128	120	60-140	6				
2-Chlorotoluene	ug/L	ND	20	20	21.4	20.0	107	100	60-140	7				
4-Chlorotoluene	ug/L	ND	20	20	20.5	19.2	102	96	60-140	7				
Benzene	ug/L	ND	20	20	24.1	22.6	120	113	60-140	6				
Bromobenzene	ug/L	ND	20	20	20.8	19.4	104	97	60-140	7				
Bromochloromethane	ug/L	ND	20	20	25.2	24.3	126	121	60-140	4				
Bromodichloromethane	ug/L	ND	20	20	23.5	22.7	117	113	60-140	3				
Bromofom	ug/L	ND	20	20	20.2	19.1	101	96	60-140	5				
Bromomethane	ug/L	ND	20	20	19.3	18.9	97	94	60-140	3				
Carbon tetrachloride	ug/L	ND	20	20	25.9	25.4	129	127	60-140	2				
Chlorobenzene	ug/L	ND	20	20	22.9	21.1	114	106	60-140	8				
Chloroethane	ug/L	ND	20	20	24.8	21.3	124	106	60-140	15				
Chloroform	ug/L	ND	20	20	25.0	23.4	125	117	60-140	7				
Chloromethane	ug/L	ND	20	20	17.5	17.6	88	88	60-140	1				
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.7	22.7	118	114	60-140	4				
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	23.2	122	116	60-140	5				
Dibromochloromethane	ug/L	ND	20	20	23.8	22.5	119	113	60-140	5				
Dibromomethane	ug/L	ND	20	20	24.1	23.8	120	119	60-140	1				
Dichlorodifluoromethane	ug/L	ND	20	20	22.8	21.4	114	107	60-140	6				
Diisopropyl ether	ug/L	ND	20	20	23.6	21.7	118	109	60-140	8				
Ethylbenzene	ug/L	ND	20	20	22.1	21.3	111	106	60-140	4				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.8	22.5	109	113	60-140	3				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4				
m&p-Xylene	ug/L	ND	40	40	44.1	42.5	110	106	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	20	20	23.3	21.7	116	108	60-140	7				
Methylene Chloride	ug/L	ND	20	20	23.2	21.4	116	107	60-140	8				

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: 2020-L1-2448 Incident

Pace Project No.: 92527887

Parameter	92527515019		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.7	21.8	109	109	60-140	1				
n-Propylbenzene	ug/L	ND	20	20	20.7	19.7	103	98	60-140	5				
Naphthalene	ug/L	ND	20	20	19.6	19.5	98	97	60-140	1				
o-Xylene	ug/L	ND	20	20	23.1	21.5	115	108	60-140	7				
sec-Butylbenzene	ug/L	ND	20	20	21.5	20.9	108	105	60-140	3				
Styrene	ug/L	ND	20	20	22.0	20.7	110	104	60-140	6				
tert-Butylbenzene	ug/L	ND	20	20	17.8	17.0	89	85	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	22.0	21.7	110	109	60-140	1				
Toluene	ug/L	ND	20	20	23.1	22.2	115	111	60-140	4				
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.9	23.0	125	115	60-140	8				
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.9	22.3	120	111	60-140	7				
Trichloroethene	ug/L	ND	20	20	24.6	22.9	123	115	60-140	7				
Trichlorofluoromethane	ug/L	ND	20	20	24.1	23.1	121	115	60-140	4				
Vinyl chloride	ug/L	ND	20	20	21.1	20.2	106	101	60-140	5				
1,2-Dichloroethane-d4 (S)	%						103	104	70-130					
4-Bromofluorobenzene (S)	%						100	101	70-130					
Toluene-d8 (S)	%						99	99	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527887

---

### 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.

### ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527887

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527887001	DUP-1	MADEP VPH	607250		
92527887002	FB-1	MADEP VPH	607250		
92527887001	DUP-1	EPA 3010A	607152	EPA 6010D	607431
92527887002	FB-1	EPA 3010A	607152	EPA 6010D	607431
92527887001	DUP-1	SM 6200B	607693		
92527887002	FB-1	SM 6200B	607693		
92527887003	TRIP BLANK	SM 6200B	607693		

**REPORT OF LABORATORY ANALYSIS**

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies  
 Address: Apex Companies  
 Billing Information:

Report To: Andrews Street  
 Copy To: Andrews Street & Apex.com  
 Email To: Andrews Street & Apex.com  
 Site Collection Info/Address:

Customer Project Name/Number: 2020-11-2448 Incident  
 State: NC County/City: Wilmington Time Zone Collected: PT MT CT ET

Phone: \_\_\_\_\_ Site/Facility ID #: \_\_\_\_\_  
 Email: \_\_\_\_\_ Compliance Monitoring? Yes No

Collected By (print): Nadav Firtz Purchase Order #: \_\_\_\_\_  
 Quote #: \_\_\_\_\_  
 Turnaround Date Required: \_\_\_\_\_  
 Collected By (signature): Nadav Firtz DW PWS ID #: \_\_\_\_\_  
 Turnaround Date Required: ASAP DW Location Code: \_\_\_\_\_  
 Immediately Packed on Ice: Yes No

Sample Disposal: \_\_\_\_\_  
 Dispose as appropriate  Return  Yes  No  
 Archive: \_\_\_\_\_  
 Hold: \_\_\_\_\_  
 Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW),  
 Product (P), Soil/Solid (SL), Oil (OU), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
DW-1	DW	G	3:14	-				8
FB-1	OT	G						8
Tap Blank	OT	-						2

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Met Blue Dry None  
 Packing Material Used: BP  
 Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

LAB  
**MO# : 92527887**  
  
 Co: 92527887

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfite, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other \_\_\_\_\_

Analyses

Lab Profile/Line:	Lab Sample Receipt Checklist:	Lab Sample # / Comments:
VOCs 6200B	Custody seals Present/Intact <u>Y</u> <u>N</u> <u>NA</u> Custody Signatures Present <u>Y</u> <u>N</u> <u>NA</u> Collector Signatures Present <u>Y</u> <u>N</u> <u>NA</u> Bottles Intact <u>Y</u> <u>N</u> <u>NA</u> Correct Bottles <u>Y</u> <u>N</u> <u>NA</u> Sufficient Volume <u>Y</u> <u>N</u> <u>NA</u> Samples Received on Ice <u>Y</u> <u>N</u> <u>NA</u> VOA - Headspace Acceptable <u>Y</u> <u>N</u> <u>NA</u> USDA Regulated Soils <u>Y</u> <u>N</u> <u>NA</u> Samples in Holding Time <u>Y</u> <u>N</u> <u>NA</u> Residual Chlorine Present <u>Y</u> <u>N</u> <u>NA</u> Cl Strips: <u>Y</u> <u>N</u> <u>NA</u> Sample pH Acceptable <u>Y</u> <u>N</u> <u>NA</u> pH Strips: <u>Y</u> <u>N</u> <u>NA</u> Sulfide Present <u>Y</u> <u>N</u> <u>NA</u> Lead Acetate Strips: <u>Y</u> <u>N</u> <u>NA</u>	12527887
MADEP VPH		001
Lead		002
		003

SHORT HOLDS PRESENT (<72 hours): Y N N/A  
 Lab Tracking #: 2615900  
 Samples received via: Client Courier Pace Courier  
 FEDEX UPS MTIL LAB USE ONLY

Lab Sample Temperature Info  
 Temp Blank Received: Y N NA  
 Therm ID#: 977064  
 Cooler 1 Temp Upon Receipt: 0.0 1.1 OC  
 Cooler 1 Therm Cor. Factor: 0.0 OC  
 Cooler 1 Corrected Temp: 0.0 OC  
 Comments: \_\_\_\_\_

Table #: \_\_\_\_\_  
 Accrual: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_  
 Non Conformance(s): Y N NA  
 YES NO  
 Page: \_\_\_\_\_ of: \_\_\_\_\_



Project #

**WO# : 92527887**

PM: AMB

Due Date: 03/23/21

CLIENT: 92-APEX MOOR

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

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

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

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	/	/	/	/	/	1	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	1	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	
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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.

February 25, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92522431

Dear Andrew Street:

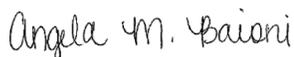
Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522431

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92522431

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92522431001	14401_HC_RD_20210216	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522431

Sample: 14401_HC_RD_20210216	Lab ID: 92522431001	Collected: 02/16/21 08:40	Received: 02/16/21 13:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/25/21 00:58	02/25/21 00:58		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/25/21 00:58	02/25/21 00:58		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/25/21 00:58	02/25/21 00:58	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/25/21 00:58	02/25/21 00:58	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	95.6	%	70.0-130	1	02/25/21 00:58	02/25/21 00:58	615-59-8FID	
2,5-Dibromotoluene (PID)	97.3	%	70.0-130	1	02/25/21 00:58	02/25/21 00:58	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/17/21 01:43	02/17/21 20:41	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/18/21 18:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/18/21 18:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/18/21 18:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/18/21 18:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/18/21 18:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/18/21 18:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/18/21 18:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/18/21 18:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/18/21 18:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/21 18:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/18/21 18:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/21 18:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 18:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/18/21 18:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/18/21 18:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/18/21 18:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/18/21 18:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/18/21 18:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/18/21 18:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/18/21 18:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/18/21 18:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/18/21 18:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/18/21 18:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/18/21 18:03	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92522431

Sample: 14401_HC_RD_20210216	Lab ID: 92522431001	Collected: 02/16/21 08:40	Received: 02/16/21 13:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/18/21 18:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/18/21 18:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/18/21 18:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/18/21 18:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/18/21 18:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/18/21 18:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/18/21 18:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/18/21 18:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/18/21 18:03	103-65-1	
Styrene	ND	ug/L	0.50	1		02/18/21 18:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 18:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/18/21 18:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/18/21 18:03	127-18-4	
Toluene	ND	ug/L	0.50	1		02/18/21 18:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 18:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/18/21 18:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/18/21 18:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/18/21 18:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/18/21 18:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/21 18:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/18/21 18:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 18:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/18/21 18:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/21 18:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/18/21 18:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/18/21 18:03	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		02/18/21 18:03	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		02/18/21 18:03	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		02/18/21 18:03	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92522431

QC Batch: 1624940

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92522431001

METHOD BLANK: R3624990-3

Matrix: Water

Associated Lab Samples: 92522431001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/24/21 12:57	
Aliphatic (C09-C12)	ug/L	ND	100	02/24/21 12:57	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/24/21 12:57	
Total VPH	ug/L	ND	100	02/24/21 12:57	
2,5-Dibromotoluene (FID)	%	91.6	70.0-130	02/24/21 12:57	
2,5-Dibromotoluene (PID)	%	92.7	70.0-130	02/24/21 12:57	

LABORATORY CONTROL SAMPLE & LCSD: R3624990-1 R3624990-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1010	982	84.2	81.8	70.0-130	2.81	25	
Aliphatic (C09-C12)	ug/L	1400	1370	1310	97.9	93.6	70.0-130	4.48	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	185	213	92.5	106	70.0-130	14.1	25	
Total VPH	ug/L	2800	2570	2510	91.8	89.6	70.0-130	2.36	25	
2,5-Dibromotoluene (FID)	%				91.4	92.8	70.0-130			
2,5-Dibromotoluene (PID)	%				95.7	94.6	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522431

QC Batch: 600518	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92522431001

METHOD BLANK: 3165294 Matrix: Water  
Associated Lab Samples: 92522431001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/17/21 19:11	

LABORATORY CONTROL SAMPLE: 3165295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165296 3165297

Parameter	Units	92521876001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	519	516	104	103	75-125	0		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522431

QC Batch: 600709      Analysis Method: SM 6200B  
QC Batch Method: SM 6200B      Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92522431001

METHOD BLANK: 3165931      Matrix: Water  
Associated Lab Samples: 92522431001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
1,1-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/18/21 11:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/18/21 11:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/18/21 11:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichloroethane	ug/L	ND	0.50	02/18/21 11:49	
1,2-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
1,3-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
2,2-Dichloropropane	ug/L	ND	0.50	02/18/21 11:49	
2-Chlorotoluene	ug/L	ND	0.50	02/18/21 11:49	
4-Chlorotoluene	ug/L	ND	0.50	02/18/21 11:49	
Benzene	ug/L	ND	0.50	02/18/21 11:49	
Bromobenzene	ug/L	ND	0.50	02/18/21 11:49	
Bromochloromethane	ug/L	ND	0.50	02/18/21 11:49	
Bromodichloromethane	ug/L	ND	0.50	02/18/21 11:49	
Bromoform	ug/L	ND	0.50	02/18/21 11:49	
Bromomethane	ug/L	ND	5.0	02/18/21 11:49	
Carbon tetrachloride	ug/L	ND	0.50	02/18/21 11:49	
Chlorobenzene	ug/L	ND	0.50	02/18/21 11:49	
Chloroethane	ug/L	ND	1.0	02/18/21 11:49	
Chloroform	ug/L	ND	0.50	02/18/21 11:49	
Chloromethane	ug/L	ND	1.0	02/18/21 11:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
Dibromochloromethane	ug/L	ND	0.50	02/18/21 11:49	
Dibromomethane	ug/L	ND	0.50	02/18/21 11:49	
Dichlorodifluoromethane	ug/L	ND	0.50	02/18/21 11:49	
Diisopropyl ether	ug/L	ND	0.50	02/18/21 11:49	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522431

METHOD BLANK: 3165931 Matrix: Water  
Associated Lab Samples: 92522431001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/18/21 11:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/18/21 11:49	
m&p-Xylene	ug/L	ND	1.0	02/18/21 11:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/18/21 11:49	
Methylene Chloride	ug/L	ND	2.0	02/18/21 11:49	
n-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
n-Propylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Naphthalene	ug/L	ND	2.0	02/18/21 11:49	
o-Xylene	ug/L	ND	0.50	02/18/21 11:49	
sec-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Styrene	ug/L	ND	0.50	02/18/21 11:49	
tert-Butylbenzene	ug/L	ND	0.50	02/18/21 11:49	
Tetrachloroethene	ug/L	ND	0.50	02/18/21 11:49	
Toluene	ug/L	ND	0.50	02/18/21 11:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/18/21 11:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/18/21 11:49	
Trichloroethene	ug/L	ND	0.50	02/18/21 11:49	
Trichlorofluoromethane	ug/L	ND	1.0	02/18/21 11:49	
Vinyl chloride	ug/L	ND	1.0	02/18/21 11:49	
1,2-Dichloroethane-d4 (S)	%	90	70-130	02/18/21 11:49	
4-Bromofluorobenzene (S)	%	100	70-130	02/18/21 11:49	
Toluene-d8 (S)	%	103	70-130	02/18/21 11:49	

LABORATORY CONTROL SAMPLE: 3165932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	60-140	
1,1,1-Trichloroethane	ug/L	50	45.8	92	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	60-140	
1,1,2-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1-Dichloroethane	ug/L	50	47.0	94	60-140	
1,1-Dichloroethene	ug/L	50	49.4	99	60-140	
1,1-Dichloropropene	ug/L	50	50.2	100	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.6	101	60-140	
1,2,3-Trichloropropane	ug/L	50	46.2	92	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.8	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.2	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.9	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	60-140	
1,2-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,2-Dichloroethane	ug/L	50	45.4	91	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	46.8	94	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522431

LABORATORY CONTROL SAMPLE: 3165932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	48.4	97	60-140	
1,4-Dichlorobenzene	ug/L	50	48.5	97	60-140	
2,2-Dichloropropane	ug/L	50	47.2	94	60-140	
2-Chlorotoluene	ug/L	50	49.7	99	60-140	
4-Chlorotoluene	ug/L	50	45.9	92	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	45.9	92	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	45.1	90	60-140	
Bromoform	ug/L	50	48.3	97	60-140	
Bromomethane	ug/L	50	43.0	86	60-140	
Carbon tetrachloride	ug/L	50	44.4	89	60-140	
Chlorobenzene	ug/L	50	48.3	97	60-140	
Chloroethane	ug/L	50	43.9	88	60-140	
Chloroform	ug/L	50	46.1	92	60-140	
Chloromethane	ug/L	50	42.5	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.3	95	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	60-140	
Dibromochloromethane	ug/L	50	52.0	104	60-140	
Dibromomethane	ug/L	50	47.5	95	60-140	
Dichlorodifluoromethane	ug/L	50	44.5	89	60-140	
Diisopropyl ether	ug/L	50	49.1	98	60-140	
Ethylbenzene	ug/L	50	47.0	94	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.0	94	60-140	
m&p-Xylene	ug/L	100	92.8	93	60-140	
Methyl-tert-butyl ether	ug/L	50	49.3	99	60-140	
Methylene Chloride	ug/L	50	45.5	91	60-140	
n-Butylbenzene	ug/L	50	52.0	104	60-140	
n-Propylbenzene	ug/L	50	47.6	95	60-140	
Naphthalene	ug/L	50	52.6	105	60-140	
o-Xylene	ug/L	50	47.7	95	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	49.2	98	60-140	
tert-Butylbenzene	ug/L	50	39.2	78	60-140	
Tetrachloroethene	ug/L	50	45.8	92	60-140	
Toluene	ug/L	50	46.5	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	41.5	83	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92522431

Parameter	92522266001		MS	MSD	3165933		3165934		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.6	22.2	98	111	60-140	13			
1,1,1-Trichloroethane	ug/L	ND	20	20	20.3	22.3	101	111	60-140	9			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.8	21.1	99	106	60-140	7			
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	21.4	99	107	60-140	8			
1,1-Dichloroethane	ug/L	ND	20	20	19.9	21.2	99	106	60-140	6			
1,1-Dichloroethene	ug/L	ND	20	20	22.4	23.6	112	118	60-140	5			
1,1-Dichloropropene	ug/L	ND	20	20	19.8	22.1	99	111	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.4	20.4	97	102	60-140	5			
1,2,3-Trichloropropane	ug/L	ND	20	20	18.4	20.3	92	101	60-140	9			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.0	21.3	100	106	60-140	6			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.6	21.7	103	108	60-140	5			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.1	22.1	100	111	60-140	10			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.2	22.0	96	110	60-140	14			
1,2-Dichlorobenzene	ug/L	ND	20	20	21.1	22.2	106	111	60-140	5			
1,2-Dichloroethane	ug/L	ND	20	20	18.3	19.5	91	98	60-140	7			
1,2-Dichloropropane	ug/L	ND	20	20	18.9	20.7	94	103	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.8	21.3	104	107	60-140	3			
1,3-Dichlorobenzene	ug/L	ND	20	20	20.4	21.0	102	105	60-140	3			
1,3-Dichloropropane	ug/L	ND	20	20	18.4	21.4	92	107	60-140	15			
1,4-Dichlorobenzene	ug/L	ND	20	20	21.9	22.8	109	114	60-140	4			
2,2-Dichloropropane	ug/L	ND	20	20	19.7	21.3	98	106	60-140	8			
2-Chlorotoluene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5			
Benzene	ug/L	ND	20	20	19.6	21.1	98	105	60-140	7			
Bromobenzene	ug/L	ND	20	20	21.6	22.1	108	111	60-140	3			
Bromochloromethane	ug/L	ND	20	20	20.4	23.2	102	116	60-140	13			
Bromodichloromethane	ug/L	ND	20	20	19.3	20.7	96	103	60-140	7			
Bromoform	ug/L	ND	20	20	19.5	22.0	98	110	60-140	12			
Bromomethane	ug/L	ND	20	20	22.3	23.6	112	118	60-140	5			
Carbon tetrachloride	ug/L	ND	20	20	21.5	23.4	108	117	60-140	8			
Chlorobenzene	ug/L	ND	20	20	20.2	21.5	101	108	60-140	6			
Chloroethane	ug/L	ND	20	20	24.2	25.6	121	128	60-140	6			
Chloroform	ug/L	ND	20	20	19.8	21.2	99	106	60-140	7			
Chloromethane	ug/L	ND	20	20	18.8	20.0	93	100	60-140	6			
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.1	20.9	96	104	60-140	9			
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	21.2	97	106	60-140	9			
Dibromochloromethane	ug/L	ND	20	20	19.5	22.3	98	111	60-140	13			
Dibromomethane	ug/L	ND	20	20	21.9	22.5	109	113	60-140	3			
Dichlorodifluoromethane	ug/L	ND	20	20	25.1	26.1	125	131	60-140	4			
Diisopropyl ether	ug/L	ND	20	20	16.9	18.8	84	94	60-140	11			
Ethylbenzene	ug/L	ND	20	20	19.8	20.5	99	103	60-140	4			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.5	20.4	98	102	60-140	4			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	21.1	102	105	60-140	4			
m&p-Xylene	ug/L	ND	40	40	40.8	42.1	102	105	60-140	3			
Methyl-tert-butyl ether	ug/L	ND	20	20	18.7	21.6	94	108	60-140	14			
Methylene Chloride	ug/L	ND	20	20	18.1	19.7	91	98	60-140	8			

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: 2020-L1-2448 Incident

Pace Project No.: 92522431

Parameter	92522266001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	20.2	20.4	101	102	60-140	1				
n-Propylbenzene	ug/L	ND	20	20	20.8	21.0	104	105	60-140	1				
Naphthalene	ug/L	ND	20	20	20.1	21.7	101	108	60-140	7				
o-Xylene	ug/L	ND	20	20	20.2	20.8	101	104	60-140	3				
sec-Butylbenzene	ug/L	ND	20	20	20.9	21.7	104	109	60-140	4				
Styrene	ug/L	ND	20	20	20.4	21.6	102	108	60-140	6				
tert-Butylbenzene	ug/L	ND	20	20	16.7	17.4	84	87	60-140	4				
Tetrachloroethene	ug/L	ND	20	20	19.5	20.7	97	103	60-140	6				
Toluene	ug/L	ND	20	20	20.9	21.0	105	105	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.4	21.7	102	109	60-140	6				
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.9	21.2	99	106	60-140	7				
Trichloroethene	ug/L	ND	20	20	20.1	21.5	100	108	60-140	7				
Trichlorofluoromethane	ug/L	ND	20	20	23.2	23.9	116	120	60-140	3				
Vinyl chloride	ug/L	ND	20	20	22.6	23.7	113	119	60-140	5				
1,2-Dichloroethane-d4 (S)	%						99	101	70-130					
4-Bromofluorobenzene (S)	%						101	100	70-130					
Toluene-d8 (S)	%						103	97	70-130					

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: 2020-L1-2448 Incident

Pace Project No.: 92522431

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92522431

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92522431001	14401_HC_RD_20210216	MADEPV	1624940	MADEP VPH	1624940
92522431001	14401_HC_RD_20210216	EPA 3010A	600518	EPA 6010D	600543
92522431001	14401_HC_RD_20210216	SM 6200B	600709		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Pace Companies  
Address: Andrews Street

Billing Information:

Report To: Andrews Street & Pace Cos. Com  
Copy To: 14401 Huntsville General Rd

State: Country/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Customer Project Name/Number: 2020-11-2448 Incident  
Site/Facility ID #: NL Huntsville

LAB USE ONLY - NO# : 92522431

Phone: Collected By (print): Naomi Fatz  
Email: Naomi Fatz  
Purchase Order #: Turnaround Date Required: ASAP

Lab Profile/line: Lab Sample Receipt Checklist:  
Custody Seals Present/Intact Y (X) NA  
Custody Signatures Present Y (X) NA  
Collector Signature Present Y (X) NA  
Bottles Intact Y (X) NA  
Correct Bottles Y (X) NA  
Sufficient Volume Y (X) NA  
Samples Received on Ice Y (X) NA  
VOA - Headspace Acceptable Y (X) NA  
USDA Regulated soils Y (X) NA  
Samples in Holding Time Residual Chlorine Present Y (X) NA  
Cl Strips: Y (X) NA  
Sample pH acceptable pH Strips: 22.5819 HV Y (X) NA  
Sulfide Present Y (X) NA  
Lead Acetate Strips: Y (X) NA

Sample Disposal: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
Rush: [ ] Yes [ ] No  
Field Filtered (if applicable): [ ] Yes [ ] No  
Analysis: [ ] Yes [ ] No

Container Preserved: [ ] Yes [ ] No  
Analyses: VOCs 6200B, MADEP VPH, Lead

Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: 14401-MC-20-2021-0216  
Matrix #: DW  
Comp / Grab: G  
Collected (or Composite Start) Date: 2-16-21 0840  
Composite End Date: 2-16-21 0840  
Res Cl: S  
# of Ctns: 3

Type of Ice Used: Wet Blue Dry None  
Packing Material Used: b. bags

Lab Tracking #: 2528999  
Samples received via: FEDEX UPS Client  
Courier: Pace Courier

Customer Remarks / Special Conditions / Possible Hazards:

Lab Sample Temperature Info:  
Temp Blank Received: Y (X) NA  
Therm ID#: 18927064  
Cooler 1 Temp Upon Receipt: 5.0 oc  
Cooler 1 Therm Corr. Factor: -1.1 oc  
Cooler 1 Corrected Temp: 4.9 oc

Relinquished by/Company: (Signature) Naomi Fatz  
Date/Time: 2-16-21 1355

Relinquished by/Company: (Signature) M. DePoe  
Date/Time: 2-16-21 1555

Relinquished by/Company: (Signature)  
Date/Time:

March 02, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92523581

Dear Andrew Street:

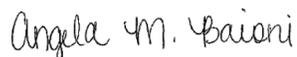
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523581

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523581

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523581001	14401_HC_RD_20210223	MADEP VPH	JHH	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92523581

**Sample:** 14401\_HC\_RD\_20210223    **Lab ID:** 92523581001    Collected: 02/23/21 09:15    Received: 02/23/21 13:35    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	02/28/21 05:26	02/28/21 05:26		
Aliphatic (C09-C12)	ND	ug/L	100	1	02/28/21 05:26	02/28/21 05:26		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	02/28/21 05:26	02/28/21 05:26	TPHC9C10A	
Total VPH	ND	ug/L	100	1	02/28/21 05:26	02/28/21 05:26	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	107	%	70.0-130	1	02/28/21 05:26	02/28/21 05:26	615-59-8FID	
2,5-Dibromotoluene (PID)	107	%	70.0-130	1	02/28/21 05:26	02/28/21 05:26	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	02/24/21 02:09	02/28/21 22:29	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		02/24/21 04:54	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/24/21 04:54	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/24/21 04:54	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/24/21 04:54	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/24/21 04:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/24/21 04:54	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:54	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:54	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/24/21 04:54	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/24/21 04:54	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/24/21 04:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/24/21 04:54	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/24/21 04:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/24/21 04:54	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 04:54	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		02/24/21 04:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/24/21 04:54	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/24/21 04:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/24/21 04:54	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/24/21 04:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		02/24/21 04:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/24/21 04:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		02/24/21 04:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		02/24/21 04:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/24/21 04:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		02/24/21 04:54	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92523581

**Sample:** 14401\_HC\_RD\_20210223    **Lab ID:** 92523581001    Collected: 02/23/21 09:15    Received: 02/23/21 13:35    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/24/21 04:54	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/24/21 04:54	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/24/21 04:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/24/21 04:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/24/21 04:54	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/24/21 04:54	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/24/21 04:54	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/24/21 04:54	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/24/21 04:54	103-65-1	
Styrene	ND	ug/L	0.50	1		02/24/21 04:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 04:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/24/21 04:54	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/24/21 04:54	127-18-4	
Toluene	ND	ug/L	0.50	1		02/24/21 04:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 04:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/24/21 04:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/24/21 04:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/24/21 04:54	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/24/21 04:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/24/21 04:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/24/21 04:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 04:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/24/21 04:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/24/21 04:54	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/24/21 04:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/24/21 04:54	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		02/24/21 04:54	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		02/24/21 04:54	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/24/21 04:54	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92523581

QC Batch: 1626945	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92523581001

METHOD BLANK: R3626445-3 Matrix: Water

Associated Lab Samples: 92523581001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	02/27/21 12:57	
Aliphatic (C09-C12)	ug/L	ND	100	02/27/21 12:57	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	02/27/21 12:57	
Total VPH	ug/L	ND	100	02/27/21 12:57	
2,5-Dibromotoluene (FID)	%	95.2	70.0-130	02/27/21 12:57	
2,5-Dibromotoluene (PID)	%	96.8	70.0-130	02/27/21 12:57	

LABORATORY CONTROL SAMPLE & LCSD: R3626445-1 R3626445-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1290	1290	107	107	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1670	1650	119	118	70.0-130	1.20	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	246	248	123	124	70.0-130	0.810	25	
Total VPH	ug/L	2800	3210	3190	115	114	70.0-130	0.625	25	
2,5-Dibromotoluene (FID)	%				102	105	70.0-130			
2,5-Dibromotoluene (PID)	%				104	107	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92523581

QC Batch: 602104

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523581001

METHOD BLANK: 3172642

Matrix: Water

Associated Lab Samples: 92523581001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/28/21 21:13	

LABORATORY CONTROL SAMPLE: 3172643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172644 3172645

Parameter	Units	92523735020		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523581

QC Batch: 602003 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523581001

METHOD BLANK: 3172101 Matrix: Water  
Associated Lab Samples: 92523581001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
1,1-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/24/21 00:42	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloroethane	ug/L	ND	0.50	02/24/21 00:42	
1,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
1,3-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
2,2-Dichloropropane	ug/L	ND	0.50	02/24/21 00:42	
2-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
4-Chlorotoluene	ug/L	ND	0.50	02/24/21 00:42	
Benzene	ug/L	ND	0.50	02/24/21 00:42	
Bromobenzene	ug/L	ND	0.50	02/24/21 00:42	
Bromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromodichloromethane	ug/L	ND	0.50	02/24/21 00:42	
Bromoform	ug/L	ND	0.50	02/24/21 00:42	
Bromomethane	ug/L	ND	5.0	02/24/21 00:42	
Carbon tetrachloride	ug/L	ND	0.50	02/24/21 00:42	
Chlorobenzene	ug/L	ND	0.50	02/24/21 00:42	
Chloroethane	ug/L	ND	1.0	02/24/21 00:42	
Chloroform	ug/L	ND	0.50	02/24/21 00:42	
Chloromethane	ug/L	ND	1.0	02/24/21 00:42	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Dibromochloromethane	ug/L	ND	0.50	02/24/21 00:42	
Dibromomethane	ug/L	ND	0.50	02/24/21 00:42	
Dichlorodifluoromethane	ug/L	ND	0.50	02/24/21 00:42	
Diisopropyl ether	ug/L	ND	0.50	02/24/21 00:42	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523581

METHOD BLANK: 3172101 Matrix: Water  
Associated Lab Samples: 92523581001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/24/21 00:42	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/24/21 00:42	
m&p-Xylene	ug/L	ND	1.0	02/24/21 00:42	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/24/21 00:42	
Methylene Chloride	ug/L	ND	2.0	02/24/21 00:42	
n-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
n-Propylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Naphthalene	ug/L	ND	2.0	02/24/21 00:42	
o-Xylene	ug/L	ND	0.50	02/24/21 00:42	
sec-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Styrene	ug/L	ND	0.50	02/24/21 00:42	
tert-Butylbenzene	ug/L	ND	0.50	02/24/21 00:42	
Tetrachloroethene	ug/L	ND	0.50	02/24/21 00:42	
Toluene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/24/21 00:42	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/24/21 00:42	
Trichloroethene	ug/L	ND	0.50	02/24/21 00:42	
Trichlorofluoromethane	ug/L	ND	1.0	02/24/21 00:42	
Vinyl chloride	ug/L	ND	1.0	02/24/21 00:42	
1,2-Dichloroethane-d4 (S)	%	99	70-130	02/24/21 00:42	
4-Bromofluorobenzene (S)	%	97	70-130	02/24/21 00:42	
Toluene-d8 (S)	%	101	70-130	02/24/21 00:42	

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	60-140	
1,1,2-Trichloroethane	ug/L	50	54.9	110	60-140	
1,1-Dichloroethane	ug/L	50	52.4	105	60-140	
1,1-Dichloroethene	ug/L	50	54.2	108	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.8	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.8	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	60-140	
1,2-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	56.7	113	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523581

LABORATORY CONTROL SAMPLE: 3172102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,3-Dichloropropane	ug/L	50	53.3	107	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	52.2	104	60-140	
2-Chlorotoluene	ug/L	50	51.1	102	60-140	
4-Chlorotoluene	ug/L	50	50.2	100	60-140	
Benzene	ug/L	50	53.9	108	60-140	
Bromobenzene	ug/L	50	51.1	102	60-140	
Bromochloromethane	ug/L	50	52.6	105	60-140	
Bromodichloromethane	ug/L	50	54.4	109	60-140	
Bromoform	ug/L	50	50.3	101	60-140	
Bromomethane	ug/L	50	52.1	104	60-140	
Carbon tetrachloride	ug/L	50	57.8	116	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	47.8	96	60-140	
Chloroform	ug/L	50	50.6	101	60-140	
Chloromethane	ug/L	50	43.1	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.3	115	60-140	
Dibromochloromethane	ug/L	50	56.5	113	60-140	
Dibromomethane	ug/L	50	55.8	112	60-140	
Dichlorodifluoromethane	ug/L	50	51.2	102	60-140	
Diisopropyl ether	ug/L	50	49.8	100	60-140	
Ethylbenzene	ug/L	50	52.0	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.5	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	48.6	97	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	49.7	99	60-140	
Naphthalene	ug/L	50	53.0	106	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	50.0	100	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	51.9	104	60-140	
Toluene	ug/L	50	53.3	107	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.3	117	60-140	
Trichloroethene	ug/L	50	55.5	111	60-140	
Trichlorofluoromethane	ug/L	50	47.6	95	60-140	
Vinyl chloride	ug/L	50	47.2	94	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			103	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92523581

Parameter	92523527010		MS	MSD	3172103		3172104		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.4	104	107	60-140	2		
1,1,1-Trichloroethane	ug/L	ND	20	20	20.6	20.9	103	104	60-140	1		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.3	19.5	97	98	60-140	1		
1,1,2-Trichloroethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0		
1,1-Dichloroethane	ug/L	ND	20	20	20.4	20.0	102	100	60-140	2		
1,1-Dichloroethene	ug/L	ND	20	20	21.9	21.1	110	106	60-140	4		
1,1-Dichloropropene	ug/L	ND	20	20	21.1	20.6	105	103	60-140	2		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.8	19.1	109	96	60-140	13		
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	19.4	96	97	60-140	2		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.1	19.7	106	98	60-140	7		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.7	19.0	99	95	60-140	4		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.9	21.3	115	106	60-140	7		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.2	20.6	101	103	60-140	2		
1,2-Dichlorobenzene	ug/L	ND	20	20	20.2	19.0	101	95	60-140	6		
1,2-Dichloroethane	ug/L	ND	20	20	19.4	19.5	97	98	60-140	1		
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.5	108	108	60-140	0		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.0	19.3	100	96	60-140	4		
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.5	101	97	60-140	4		
1,3-Dichloropropane	ug/L	ND	20	20	19.9	20.0	100	100	60-140	0		
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	18.6	95	93	60-140	2		
2,2-Dichloropropane	ug/L	ND	20	20	22.3	21.3	111	107	60-140	4		
2-Chlorotoluene	ug/L	ND	20	20	20.0	19.7	100	98	60-140	2		
4-Chlorotoluene	ug/L	ND	20	20	19.5	19.3	98	97	60-140	1		
Benzene	ug/L	ND	20	20	20.6	20.1	103	101	60-140	2		
Bromobenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	7		
Bromochloromethane	ug/L	ND	20	20	20.3	19.8	102	99	60-140	2		
Bromodichloromethane	ug/L	ND	20	20	19.7	20.0	98	100	60-140	2		
Bromoform	ug/L	ND	20	20	17.8	18.0	89	90	60-140	2		
Bromomethane	ug/L	ND	20	20	20.8	21.2	104	106	60-140	2		
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.0	113	110	60-140	3		
Chlorobenzene	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1		
Chloroethane	ug/L	ND	20	20	18.3	17.7	91	89	60-140	3		
Chloroform	ug/L	ND	20	20	19.9	19.5	100	98	60-140	2		
Chloromethane	ug/L	ND	20	20	15.3	15.3	76	76	60-140	0		
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	19.2	102	96	60-140	6		
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2		
Dibromochloromethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2		
Dibromomethane	ug/L	ND	20	20	20.8	20.7	104	104	60-140	0		
Dichlorodifluoromethane	ug/L	ND	20	20	12.8	12.8	64	64	60-140	0		
Diisopropyl ether	ug/L	ND	20	20	19.5	19.3	98	96	60-140	1		
Ethylbenzene	ug/L	ND	20	20	20.0	19.8	100	99	60-140	1		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.5	22.9	123	115	60-140	7		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.3	20.0	101	100	60-140	1		
m&p-Xylene	ug/L	ND	40	40	41.0	40.9	102	102	60-140	0		
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	19.8	100	99	60-140	1		
Methylene Chloride	ug/L	ND	20	20	18.9	18.6	94	93	60-140	2		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92523581

Parameter	92523527010		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.0	19.6	105	98	60-140	7				
n-Propylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Naphthalene	ug/L	ND	20	20	21.2	19.1	106	95	60-140	11				
o-Xylene	ug/L	ND	20	20	19.7	19.6	99	98	60-140	1				
sec-Butylbenzene	ug/L	ND	20	20	20.8	19.9	104	99	60-140	5				
Styrene	ug/L	ND	20	20	19.8	20.1	99	101	60-140	2				
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.5	90	87	60-140	3				
Tetrachloroethene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2				
Toluene	ug/L	ND	20	20	20.7	20.5	104	102	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.0	21.2	105	106	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.8	20.8	109	104	60-140	4				
Trichloroethene	ug/L	ND	20	20	21.3	20.9	107	104	60-140	2				
Trichlorofluoromethane	ug/L	ND	20	20	20.0	20.5	100	102	60-140	3				
Vinyl chloride	ug/L	ND	20	20	16.8	16.7	84	84	60-140	0				
1,2-Dichloroethane-d4 (S)	%						99	97	70-130					
4-Bromofluorobenzene (S)	%						98	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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: 2020-L1-2448 Incident

Pace Project No.: 92523581

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92523581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523581001	14401_HC_RD_20210223	MADEPV	1626945	MADEP VPH	1626945
92523581001	14401_HC_RD_20210223	EPA 3010A	602104	EPA 6010D	602118
92523581001	14401_HC_RD_20210223	SM 6200B	602003		

### REPORT OF LABORATORY ANALYSIS

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March 09, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525134

Dear Andrew Street:

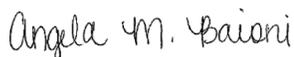
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525134

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525134

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525134001	14401_HC_RD_20210302	MADEP VPH	TPR	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525134

**Sample: 14401\_HC\_RD\_20210302**    **Lab ID: 92525134001**    Collected: 03/02/21 08:50    Received: 03/02/21 17:05    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/05/21 06:37	03/05/21 06:37		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/05/21 06:37	03/05/21 06:37		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/05/21 06:37	03/05/21 06:37	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/05/21 06:37	03/05/21 06:37	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	91.3	%	70.0-130	1	03/05/21 06:37	03/05/21 06:37	615-59-8FID	
2,5-Dibromotoluene (PID)	95.1	%	70.0-130	1	03/05/21 06:37	03/05/21 06:37	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>10.4</b>	ug/L	5.0	1	03/03/21 01:45	03/04/21 14:30	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/03/21 13:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/03/21 13:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/03/21 13:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/03/21 13:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/03/21 13:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/21 13:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/03/21 13:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/03/21 13:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/03/21 13:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/03/21 13:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/03/21 13:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/03/21 13:15	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/03/21 13:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/03/21 13:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 13:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/03/21 13:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/03/21 13:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/03/21 13:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/03/21 13:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/03/21 13:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 13:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 13:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/03/21 13:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/03/21 13:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/03/21 13:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/03/21 13:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/03/21 13:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 13:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/03/21 13:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 13:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/03/21 13:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/03/21 13:15	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525134

Sample: 14401_HC_RD_20210302	Lab ID: 92525134001	Collected: 03/02/21 08:50	Received: 03/02/21 17:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/03/21 13:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 13:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/03/21 13:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/03/21 13:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/03/21 13:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/03/21 13:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/03/21 13:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/03/21 13:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/03/21 13:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/03/21 13:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/03/21 13:15	103-65-1	
Styrene	ND	ug/L	0.50	1		03/03/21 13:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 13:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/03/21 13:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/03/21 13:15	127-18-4	
Toluene	ND	ug/L	0.50	1		03/03/21 13:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 13:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/03/21 13:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/03/21 13:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/03/21 13:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/03/21 13:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/21 13:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/03/21 13:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 13:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/03/21 13:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/03/21 13:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/03/21 13:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/03/21 13:15	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/03/21 13:15	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/03/21 13:15	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/03/21 13:15	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525134

QC Batch: 1629754	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525134001

METHOD BLANK: R3628624-2 Matrix: Water

Associated Lab Samples: 92525134001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/04/21 22:41	
Aliphatic (C09-C12)	ug/L	ND	100	03/04/21 22:41	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/04/21 22:41	
Total VPH	ug/L	ND	100	03/04/21 22:41	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	03/04/21 22:41	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/04/21 22:41	

LABORATORY CONTROL SAMPLE & LCSD: R3628624-1 R3628624-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1110	1060	92.5	88.3	70.0-130	4.61	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1130	95.0	80.7	70.0-130	16.3	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	249	212	124	106	70.0-130	16.1	25	
Total VPH	ug/L	2800	2690	2400	96.1	85.7	70.0-130	11.4	25	
2,5-Dibromotoluene (FID)	%				85.8	99.4	70.0-130			
2,5-Dibromotoluene (PID)	%				89.0	103	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525134

QC Batch: 603744

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525134001

METHOD BLANK: 3180706

Matrix: Water

Associated Lab Samples: 92525134001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/04/21 13:54	

LABORATORY CONTROL SAMPLE: 3180707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180708 3180709

Parameter	Units	92525130001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	470	468	94	94	75-125	0		

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: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525134

QC Batch: 603734	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92525134001

METHOD BLANK: 3180666 Matrix: Water

Associated Lab Samples: 92525134001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
1,1-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/03/21 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloroethane	ug/L	ND	0.50	03/03/21 12:21	
1,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
1,3-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
2,2-Dichloropropane	ug/L	ND	0.50	03/03/21 12:21	
2-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
4-Chlorotoluene	ug/L	ND	0.50	03/03/21 12:21	
Benzene	ug/L	ND	0.50	03/03/21 12:21	
Bromobenzene	ug/L	ND	0.50	03/03/21 12:21	
Bromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromodichloromethane	ug/L	ND	0.50	03/03/21 12:21	
Bromoform	ug/L	ND	0.50	03/03/21 12:21	
Bromomethane	ug/L	ND	5.0	03/03/21 12:21	
Carbon tetrachloride	ug/L	ND	0.50	03/03/21 12:21	
Chlorobenzene	ug/L	ND	0.50	03/03/21 12:21	
Chloroethane	ug/L	ND	1.0	03/03/21 12:21	
Chloroform	ug/L	ND	0.50	03/03/21 12:21	
Chloromethane	ug/L	ND	1.0	03/03/21 12:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Dibromochloromethane	ug/L	ND	0.50	03/03/21 12:21	
Dibromomethane	ug/L	ND	0.50	03/03/21 12:21	
Dichlorodifluoromethane	ug/L	ND	0.50	03/03/21 12:21	
Diisopropyl ether	ug/L	ND	0.50	03/03/21 12:21	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525134

METHOD BLANK: 3180666 Matrix: Water  
Associated Lab Samples: 92525134001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/03/21 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/03/21 12:21	
m&p-Xylene	ug/L	ND	1.0	03/03/21 12:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/03/21 12:21	
Methylene Chloride	ug/L	ND	2.0	03/03/21 12:21	
n-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
n-Propylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Naphthalene	ug/L	ND	2.0	03/03/21 12:21	
o-Xylene	ug/L	ND	0.50	03/03/21 12:21	
sec-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Styrene	ug/L	ND	0.50	03/03/21 12:21	
tert-Butylbenzene	ug/L	ND	0.50	03/03/21 12:21	
Tetrachloroethene	ug/L	ND	0.50	03/03/21 12:21	
Toluene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/03/21 12:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/03/21 12:21	
Trichloroethene	ug/L	ND	0.50	03/03/21 12:21	
Trichlorofluoromethane	ug/L	ND	1.0	03/03/21 12:21	
Vinyl chloride	ug/L	ND	1.0	03/03/21 12:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/03/21 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/03/21 12:21	
Toluene-d8 (S)	%	100	70-130	03/03/21 12:21	

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.5	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.9	110	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.7	101	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.5	113	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	
1,2-Dichloropropane	ug/L	50	51.1	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.1	108	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525134

LABORATORY CONTROL SAMPLE: 3180667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.4	107	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	52.0	104	60-140	
2,2-Dichloropropane	ug/L	50	52.0	104	60-140	
2-Chlorotoluene	ug/L	50	53.4	107	60-140	
4-Chlorotoluene	ug/L	50	53.1	106	60-140	
Benzene	ug/L	50	50.6	101	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	51.4	103	60-140	
Bromodichloromethane	ug/L	50	51.1	102	60-140	
Bromoform	ug/L	50	43.6	87	60-140	
Bromomethane	ug/L	50	48.2	96	60-140	
Carbon tetrachloride	ug/L	50	52.2	104	60-140	
Chlorobenzene	ug/L	50	51.2	102	60-140	
Chloroethane	ug/L	50	42.6	85	60-140	
Chloroform	ug/L	50	48.6	97	60-140	
Chloromethane	ug/L	50	39.5	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	55.5	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.6	95	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	50.3	101	60-140	
Methylene Chloride	ug/L	50	42.6	85	60-140	
n-Butylbenzene	ug/L	50	58.2	116	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	52.1	104	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	44.1	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.4	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525134

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180668 3180669												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525135001 Result	Spike Conc.	Spike Conc.	MSD Conc.							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20	21.5	22.6	108	113	60-140	5	
1,1,1-Trichloroethane	ug/L	ND	20	20	20	21.9	22.2	110	111	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	21.6	22.6	108	113	60-140	5	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	21.7	22.0	108	110	60-140	1	
1,1-Dichloroethane	ug/L	ND	20	20	20	21.2	21.1	106	105	60-140	0	
1,1-Dichloroethene	ug/L	ND	20	20	20	22.9	22.8	114	114	60-140	0	
1,1-Dichloropropene	ug/L	ND	20	20	20	23.1	23.0	115	115	60-140	0	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20	21.5	22.3	108	112	60-140	4	
1,2,3-Trichloropropane	ug/L	ND	20	20	20	21.4	22.5	107	113	60-140	5	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	22.1	22.2	110	111	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	22.3	21.8	112	109	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20	20.6	21.2	103	106	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20	22.3	22.9	111	114	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	20	20	20	21.2	21.6	106	108	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	20	20.7	20.9	104	105	60-140	1	
1,2-Dichloropropane	ug/L	ND	20	20	20	21.5	21.8	108	109	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20	22.2	22.0	111	110	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	20	20	20	21.7	21.3	109	107	60-140	2	
1,3-Dichloropropane	ug/L	ND	20	20	20	21.6	21.8	108	109	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	20	20	20	21.7	20.7	109	103	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	20	23.4	22.9	117	115	60-140	2	
2-Chlorotoluene	ug/L	ND	20	20	20	21.7	21.4	108	107	60-140	1	
4-Chlorotoluene	ug/L	ND	20	20	20	21.4	21.7	107	109	60-140	2	
Benzene	ug/L	ND	20	20	20	22.0	22.0	110	110	60-140	0	
Bromobenzene	ug/L	ND	20	20	20	20.2	20.9	101	105	60-140	4	
Bromochloromethane	ug/L	ND	20	20	20	22.2	22.1	111	110	60-140	1	
Bromodichloromethane	ug/L	ND	20	20	20	21.2	21.6	106	108	60-140	2	
Bromoform	ug/L	ND	20	20	20	17.5	18.4	87	92	60-140	5	
Bromomethane	ug/L	ND	20	20	20	23.8	23.2	119	116	60-140	2	
Carbon tetrachloride	ug/L	ND	20	20	20	22.7	23.8	113	119	60-140	5	
Chlorobenzene	ug/L	ND	20	20	20	21.3	21.7	106	109	60-140	2	
Chloroethane	ug/L	ND	20	20	20	20.7	20.9	104	105	60-140	1	
Chloroform	ug/L	ND	20	20	20	20.7	21.1	103	105	60-140	2	
Chloromethane	ug/L	ND	20	20	20	18.8	18.0	94	90	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20	20.5	20.3	102	101	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20	22.1	22.9	111	115	60-140	4	
Dibromochloromethane	ug/L	ND	20	20	20	21.1	21.5	105	108	60-140	2	
Dibromomethane	ug/L	ND	20	20	20	22.2	22.2	111	111	60-140	0	
Dichlorodifluoromethane	ug/L	ND	20	20	20	20.2	19.5	101	98	60-140	3	
Diisopropyl ether	ug/L	ND	20	20	20	18.5	18.9	93	95	60-140	2	
Ethylbenzene	ug/L	ND	20	20	20	21.7	22.1	108	111	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20	24.0	23.5	120	118	60-140	2	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20	22.6	22.8	113	114	60-140	1	
m&p-Xylene	ug/L	ND	40	40	40	43.3	44.6	108	111	60-140	3	
Methyl-tert-butyl ether	ug/L	ND	20	20	20	20.3	20.9	101	104	60-140	3	
Methylene Chloride	ug/L	ND	20	20	20	17.9	17.9	89	90	60-140	1	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT  
Pace Project No.: 92525134

Parameter	92525135001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec					
n-Butylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	3			
n-Propylbenzene	ug/L	ND	20	20	22.1	21.3	110	106	60-140	4			
Naphthalene	ug/L	ND	20	20	21.2	21.2	106	106	60-140	0			
o-Xylene	ug/L	ND	20	20	22.1	22.1	110	111	60-140	0			
sec-Butylbenzene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2			
Styrene	ug/L	ND	20	20	21.4	22.1	107	111	60-140	3			
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.9	92	90	60-140	3			
Tetrachloroethene	ug/L	ND	20	20	22.5	22.5	113	112	60-140	0			
Toluene	ug/L	ND	20	20	21.5	22.0	107	110	60-140	2			
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.3	110	106	60-140	3			
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	5			
Trichloroethene	ug/L	ND	20	20	22.6	22.6	113	113	60-140	0			
Trichlorofluoromethane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3			
Vinyl chloride	ug/L	ND	20	20	20.1	19.2	101	96	60-140	5			
1,2-Dichloroethane-d4 (S)	%							96	96	70-130			
4-Bromofluorobenzene (S)	%							100	102	70-130			
Toluene-d8 (S)	%							97	100	70-130			

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## QUALIFIERS

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525134

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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.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 INCIDENT

Pace Project No.: 92525134

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525134001	14401_HC_RD_20210302	MADEPV	1629754	MADEP VPH	1629754
92525134001	14401_HC_RD_20210302	EPA 3010A	603744	EPA 6010D	603765
92525134001	14401_HC_RD_20210302	SM 6200B	603734		

### REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Address: Apex Companies

Report To: Podrias Street

Copy To: Podrias Street

Customer Project Name/Number: 2020-LI-2498 Incident

State: NC County/City: Watersville Time Zone Collected: PT  MR  CT  ET

Site/Facility ID #: NCI Watersville

Site Collection Info/Address: Podrias Street Apex COB com  
19901 Watersville Concord NC

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Compliance Monitoring?  Yes  No

Collected By (print): Naomi FTS

Quote #: \_\_\_\_\_

Purchase Order #: \_\_\_\_\_

DW PWS ID #: \_\_\_\_\_

DW Location Code: \_\_\_\_\_

Immediately Packed on Ice:  Yes  No

Sample Disposal: HSAP

Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Field Filtered (if applicable):  Yes  No

Analysis: \_\_\_\_\_

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Lab Tracking #: 26161771

SHORT HOLDS PRESENT (<72 hours):  Y  N  N/A

Samples received via: client

FEDEX UPS Courier Pace Courier

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfite, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Sample Receipt Checklist:

Custody Seals Present/Intact:  Y  N

Custody Signatures Present:  Y  N

Collector Signature Present:  Y  N

Bottles Intact:  Y  N

Correct Bottles:  Y  N

Sufficient Volume:  Y  N

VOL - Headspace Acceptable:  Y  N

USA Regulated Soils:  Y  N

Samples in Holding Time:  Y  N

Residual Chlorine Present:  Y  N

Cl Strips:  Y  N

Sample pH Acceptable:  Y  N

pH Strips:  Y  N

Sulfide Present:  Y  N

Lead Acetate Strips:  Y  N

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date Time	Composite End Date Time	Res Cl	# of Ctrns
<u>4401HL RD 2020D382</u>	<u>DUD</u>	<u>G</u>	<u>3-22-1 0850</u>			<u>8</u>

UOGs 6200B  
MADEP VPH  
Lead

Type of Ice Used:	Wet	Blue	Dry	None
	<input checked="" type="checkbox"/>			

Customer Remarks / Special Conditions / Possible Hazards:

Packing Material Used: BB

Radchem sample(s) screened (<500 cpm):  Y  N  NA

Relinquished by/Company: (Signature) Naomi FTS Date/Time: 3-22-21 1705

Received by/Company: (Signature) APG & HW Date/Time: 3-22-21 1705

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Table #: \_\_\_\_\_

MTLE LAB USE ONLY

Temp Blank Received:  Y  N

HCL MeOH TSP Other:  NA

Non Conformance(s): YES / NO NO

Page: \_\_\_\_\_ of: \_\_\_\_\_

March 15, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92526626

Dear Andrew Street:

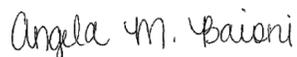
Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526626

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526626

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526626001	14401_HC_RD_20210309	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526626

**Sample: 14401\_HC\_RD\_20210309**    **Lab ID: 92526626001**    Collected: 03/09/21 09:40    Received: 03/09/21 17:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 19:21	03/12/21 19:21		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 19:21	03/12/21 19:21		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 19:21	03/12/21 19:21	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 19:21	03/12/21 19:21	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	97.3	%	70.0-130	1	03/12/21 19:21	03/12/21 19:21	615-59-8FID	
2,5-Dibromotoluene (PID)	94.1	%	70.0-130	1	03/12/21 19:21	03/12/21 19:21	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/12/21 02:20	03/12/21 16:18	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 04:14	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 04:14	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 04:14	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 04:14	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 04:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 04:14	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 04:14	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 04:14	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 04:14	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 04:14	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 04:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 04:14	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 04:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 04:14	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 04:14	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 04:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 04:14	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 04:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 04:14	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 04:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 04:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 04:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 04:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 04:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 04:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 04:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 04:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 04:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 04:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 04:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 04:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 04:14	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526626

Sample: 14401_HC_RD_20210309	Lab ID: 92526626001	Collected: 03/09/21 09:40	Received: 03/09/21 17:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 04:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 04:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 04:14	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 04:14	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 04:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 04:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 04:14	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 04:14	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 04:14	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 04:14	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 04:14	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 04:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 04:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 04:14	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 04:14	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 04:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 04:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 04:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 04:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 04:14	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 04:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 04:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 04:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 04:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 04:14	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 04:14	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 04:14	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 04:14	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		03/12/21 04:14	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		03/12/21 04:14	460-00-4	
Toluene-d8 (S)	93	%	70-130	1		03/12/21 04:14	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526626

QC Batch: 1633636

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526626001

METHOD BLANK: R3630856-3

Matrix: Water

Associated Lab Samples: 92526626001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/12/21 08:56	
Aliphatic (C09-C12)	ug/L	ND	100	03/12/21 08:56	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/12/21 08:56	
Total VPH	ug/L	ND	100	03/12/21 08:56	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	03/12/21 08:56	
2,5-Dibromotoluene (PID)	%	90.8	70.0-130	03/12/21 08:56	

LABORATORY CONTROL SAMPLE & LCSD: R3630856-1 R3630856-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1310	1300	109	108	70.0-130	0.766	25	
Aliphatic (C09-C12)	ug/L	1400	1660	1640	119	117	70.0-130	1.21	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	229	226	115	113	70.0-130	1.32	25	
Total VPH	ug/L	2800	3200	3170	114	113	70.0-130	0.942	25	
2,5-Dibromotoluene (FID)	%				94.3	99.6	70.0-130			
2,5-Dibromotoluene (PID)	%				93.2	97.1	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526626

QC Batch: 606129	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526626001

METHOD BLANK: 3193371 Matrix: Water  
Associated Lab Samples: 92526626001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/12/21 15:10	

LABORATORY CONTROL SAMPLE: 3193372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193373 3193374

Parameter	Units	92526300006		3193374		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	477	478	95	95	75-125	0

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526626

QC Batch: 605982 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526626001

METHOD BLANK: 3192559 Matrix: Water  
Associated Lab Samples: 92526626001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
Benzene	ug/L	ND	0.50	03/11/21 23:07	
Bromobenzene	ug/L	ND	0.50	03/11/21 23:07	
Bromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromoform	ug/L	ND	0.50	03/11/21 23:07	
Bromomethane	ug/L	ND	5.0	03/11/21 23:07	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 23:07	
Chlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
Chloroethane	ug/L	ND	1.0	03/11/21 23:07	
Chloroform	ug/L	ND	0.50	03/11/21 23:07	
Chloromethane	ug/L	ND	1.0	03/11/21 23:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Dibromomethane	ug/L	ND	0.50	03/11/21 23:07	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 23:07	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 23:07	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526626

METHOD BLANK: 3192559 Matrix: Water  
Associated Lab Samples: 92526626001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 23:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 23:07	
m&p-Xylene	ug/L	ND	1.0	03/11/21 23:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 23:07	
Methylene Chloride	ug/L	ND	2.0	03/11/21 23:07	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Naphthalene	ug/L	ND	2.0	03/11/21 23:07	
o-Xylene	ug/L	ND	0.50	03/11/21 23:07	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Styrene	ug/L	ND	0.50	03/11/21 23:07	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 23:07	
Toluene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Trichloroethene	ug/L	ND	0.50	03/11/21 23:07	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 23:07	
Vinyl chloride	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/11/21 23:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/11/21 23:07	
Toluene-d8 (S)	%	100	70-130	03/11/21 23:07	

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	60-140	
1,1,1-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,2-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	46.5	93	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	46.6	93	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.9	88	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane	ug/L	50	46.7	93	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526626

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.3	93	60-140	
1,3-Dichloropropane	ug/L	50	48.1	96	60-140	
1,4-Dichlorobenzene	ug/L	50	44.5	89	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	47.5	95	60-140	
4-Chlorotoluene	ug/L	50	44.3	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	49.5	99	60-140	
Bromochloromethane	ug/L	50	51.3	103	60-140	
Bromodichloromethane	ug/L	50	46.9	94	60-140	
Bromoform	ug/L	50	47.7	95	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	54.3	109	60-140	
Chlorobenzene	ug/L	50	47.5	95	60-140	
Chloroethane	ug/L	50	44.7	89	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	37.6	75	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	60-140	
Dibromochloromethane	ug/L	50	53.7	107	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	45.8	92	60-140	
Ethylbenzene	ug/L	50	45.5	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	60-140	
m&p-Xylene	ug/L	100	94.1	94	60-140	
Methyl-tert-butyl ether	ug/L	50	49.0	98	60-140	
Methylene Chloride	ug/L	50	45.2	90	60-140	
n-Butylbenzene	ug/L	50	42.1	84	60-140	
n-Propylbenzene	ug/L	50	44.4	89	60-140	
Naphthalene	ug/L	50	46.8	94	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	42.4	85	60-140	
Styrene	ug/L	50	48.8	98	60-140	
tert-Butylbenzene	ug/L	50	38.0	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	48.6	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	60-140	
Trichloroethene	ug/L	50	49.8	100	60-140	
Trichlorofluoromethane	ug/L	50	43.6	87	60-140	
Vinyl chloride	ug/L	50	40.1	80	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			106	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526626

Parameter	92526257003		MS	MSD	3192561		3192562		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	441	426	110	106	60-140	3			
1,1,1-Trichloroethane	ug/L	ND	400	400	439	437	110	109	60-140	0			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	420	400	105	100	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	400	400	427	400	107	100	60-140	6			
1,1-Dichloroethane	ug/L	ND	400	400	421	425	105	106	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	481	456	120	114	60-140	5			
1,1-Dichloropropene	ug/L	ND	400	400	416	421	104	105	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	327	356	82	89	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	400	400	394	378	99	95	60-140	4			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	346	361	86	90	60-140	4			
1,2,4-Trimethylbenzene	ug/L	148	400	400	537	531	97	96	60-140	1			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	424	409	106	102	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	449	416	112	104	60-140	8			
1,2-Dichlorobenzene	ug/L	ND	400	400	391	392	98	98	60-140	0			
1,2-Dichloroethane	ug/L	ND	400	400	402	411	101	103	60-140	2			
1,2-Dichloropropane	ug/L	ND	400	400	469	427	117	107	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	432	413	108	103	60-140	4			
1,3-Dichlorobenzene	ug/L	ND	400	400	410	401	103	100	60-140	2			
1,3-Dichloropropane	ug/L	ND	400	400	417	425	104	106	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	400	400	383	380	96	95	60-140	1			
2,2-Dichloropropane	ug/L	ND	400	400	355	358	89	89	60-140	1			
2-Chlorotoluene	ug/L	ND	400	400	411	417	103	104	60-140	1			
4-Chlorotoluene	ug/L	ND	400	400	399	382	100	96	60-140	4			
Benzene	ug/L	2140	400	400	2580	2600	111	114	60-140	1			
Bromobenzene	ug/L	ND	400	400	435	417	109	104	60-140	4			
Bromochloromethane	ug/L	ND	400	400	436	412	109	103	60-140	6			
Bromodichloromethane	ug/L	ND	400	400	419	405	105	101	60-140	4			
Bromoform	ug/L	ND	400	400	381	362	95	91	60-140	5			
Bromomethane	ug/L	ND	400	400	466	515	117	129	60-140	10			
Carbon tetrachloride	ug/L	ND	400	400	449	434	112	108	60-140	4			
Chlorobenzene	ug/L	ND	400	400	441	427	110	107	60-140	3			
Chloroethane	ug/L	ND	400	400	405	390	101	98	60-140	4			
Chloroform	ug/L	ND	400	400	438	424	109	106	60-140	3			
Chloromethane	ug/L	ND	400	400	366	367	92	92	60-140	0			
cis-1,2-Dichloroethene	ug/L	ND	400	400	406	409	101	102	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	433	421	108	105	60-140	3			
Dibromochloromethane	ug/L	ND	400	400	442	426	110	106	60-140	4			
Dibromomethane	ug/L	ND	400	400	442	444	110	111	60-140	1			
Dichlorodifluoromethane	ug/L	ND	400	400	404	390	101	97	60-140	4			
Diisopropyl ether	ug/L	227	400	400	627	627	100	100	60-140	0			
Ethylbenzene	ug/L	151	400	400	579	569	107	105	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	384	395	96	99	60-140	3			
Isopropylbenzene (Cumene)	ug/L	ND	400	400	429	410	107	103	60-140	5			
m&p-Xylene	ug/L	838	800	800	1750	1730	115	112	60-140	1			
Methyl-tert-butyl ether	ug/L	65.7	400	400	477	466	103	100	60-140	2			
Methylene Chloride	ug/L	ND	400	400	414	407	98	96	60-140	2			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526626

Parameter	92526257003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
n-Butylbenzene	ug/L	ND	400	400	369	356	92	89	60-140	4				
n-Propylbenzene	ug/L	ND	400	400	413	396	103	99	60-140	4				
Naphthalene	ug/L	155	400	400	394	411	60	64	60-140	4				
o-Xylene	ug/L	465	400	400	915	910	113	111	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	408	389	102	97	60-140	5				
Styrene	ug/L	ND	400	400	424	411	106	103	60-140	3				
tert-Butylbenzene	ug/L	ND	400	400	367	349	92	87	60-140	5				
Tetrachloroethene	ug/L	ND	400	400	421	414	105	104	60-140	2				
Toluene	ug/L	2440	400	400	2870	2880	109	109	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	400	400	424	418	106	104	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	400	400	417	413	104	103	60-140	1				
Trichloroethene	ug/L	ND	400	400	451	427	113	107	60-140	6				
Trichlorofluoromethane	ug/L	ND	400	400	446	440	112	110	60-140	1				
Vinyl chloride	ug/L	ND	400	400	405	404	101	101	60-140	0				
1,2-Dichloroethane-d4 (S)	%						98	97	70-130					
4-Bromofluorobenzene (S)	%						99	99	70-130					
Toluene-d8 (S)	%						99	97	70-130					

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526626

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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.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92526626

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92526626001	14401_HC_RD_20210309	MADEPV	1633636	MADEP VPH	1633636
92526626001	14401_HC_RD_20210309	EPA 3010A	606129	EPA 6010D	606150
92526626001	14401_HC_RD_20210309	SM 6200B	605982		

## REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Alex Conspiracies  
 Address: \_\_\_\_\_  
 Billing Information: \_\_\_\_\_  
 Report To: Andrew Street  
 Copy To: \_\_\_\_\_  
 Email To: Andrew.Street@apaxcos.com  
 Site Collection Info/Address: 14401 Huntersville Concord Rd  
 State: NC County/City: Huntersville Time Zone Collected: PT | MT | CT | ET  
 Customer Project Name/Number: 2020-01-2448 Incident Site/Facility ID #: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_  
 Collected By (print): Abner Fietz Purchase Order #: \_\_\_\_\_  
 Collected By (signature): \_\_\_\_\_ Quote #: \_\_\_\_\_  
 Turnaround Date Required: ASAP  
 Sample Disposal: \_\_\_\_\_  
 [ ] Same Day [ ] Next Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 [ ] Archive: \_\_\_\_\_  
 [ ] Hold: \_\_\_\_\_  
 Analysis: \_\_\_\_\_  
 \* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

LAB U# **W0#: 92526626** Number or  
 Conta **92526626**  
 \*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:	Lab Sample Receipt Checklist:
<u>Lead</u>		Custody Seals Present/Intact Y <input checked="" type="checkbox"/> N Custody Signatures Present Y <input checked="" type="checkbox"/> N Collector Signatures Present Y <input checked="" type="checkbox"/> N Bottles Intact Y <input checked="" type="checkbox"/> N Correct Bottles Y <input checked="" type="checkbox"/> N Sufficient Volume Y <input checked="" type="checkbox"/> N Samples Received on Ice Y <input checked="" type="checkbox"/> N VOA - Headspace Acceptable Y <input checked="" type="checkbox"/> N USDA Regulated Soils Y <input checked="" type="checkbox"/> N Samples in Holding Time Y <input checked="" type="checkbox"/> N Residual Chlorine Present Y <input checked="" type="checkbox"/> N Cl Strips: Y <input checked="" type="checkbox"/> N Sample pH Acceptable Y <input checked="" type="checkbox"/> N pH Strips: <u>2.5</u> Y <input checked="" type="checkbox"/> N Sulfide Present Y <input checked="" type="checkbox"/> N Lead Acetate Strips: _____ Y <input checked="" type="checkbox"/> N
<u>MADEP VFA</u>		LAB USE ONLY: Lab Sample # / Comments: <u>92526626</u>
<u>VOCs 6200 B</u>		

SHORT HOLDS PRESENT (<72 hours): Y  N  
 Lab Tracking #: 2615864  
 Samples received via: FEDEX  UPS  Client   
 Date/Time: 3/9/2017 5:55  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Courier: Client PACE Courier  
 MTJL LAB USE ONLY  
 Table #: \_\_\_\_\_  
 Acctnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_  
 Lab Sample Temperature Info:  
 Temp Blank Received: 9.2 NA  
 Therm ID#: 92526626 NA  
 Cooler 1 Temp Upon Receipt: 2.5 oC  
 Cooler 1 Therm Corr. Factor: 0 oC  
 Cooler 1 Corrected Temp: 2.5 oC  
 Comments: \_\_\_\_\_  
 Trip Blank Received: Y  N   
 HCL MeOH TSP Other  
 Non Conformance(s): YES  NO   
 Page: \_\_\_\_\_ of: \_\_\_\_\_

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: bubble bags  
 Radchem sample(s) screened (<500 cpm): Y  N   
 Relinquished by/Company: (Signature) Abner Fietz / Apex Date/Time: 3-9-17 5:55 Received by/Company: (Signature) ANDR PAETZ  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_

March 16, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92526621

Dear Andrew Street:

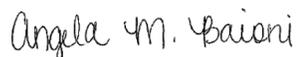
Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526621

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526621

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526621001	DUP-1	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526621002	FB-1	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526621003	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526621

Sample: DUP-1	Lab ID: 92526621001	Collected: 03/09/21 00:00	Received: 03/09/21 17:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 18:14	03/12/21 18:14		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 18:14	03/12/21 18:14		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 18:14	03/12/21 18:14	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 18:14	03/12/21 18:14	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	97.8	%	70.0-130	1	03/12/21 18:14	03/12/21 18:14	615-59-8FID	
2,5-Dibromotoluene (PID)	94.3	%	70.0-130	1	03/12/21 18:14	03/12/21 18:14	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 03:39	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 02:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 02:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 02:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 02:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 02:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 02:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 02:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 02:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 02:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 02:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 02:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 02:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 02:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 02:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 02:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 02:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 02:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 02:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 02:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 02:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 02:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 02:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 02:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 02:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 02:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 02:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 02:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 02:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 02:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 02:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 02:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 02:43	594-20-7	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

Sample: DUP-1	Lab ID: 92526621001	Collected: 03/09/21 00:00	Received: 03/09/21 17:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 02:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 02:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 02:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 02:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 02:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 02:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 02:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 02:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 02:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 02:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 02:43	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 02:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 02:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 02:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 02:43	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 02:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 02:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 02:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 02:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 02:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 02:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 02:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 02:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 02:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 02:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 02:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 02:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 02:43	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/12/21 02:43	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		03/12/21 02:43	460-00-4	
Toluene-d8 (S)	86	%	70-130	1		03/12/21 02:43	2037-26-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

Sample: FB-1	Lab ID: 92526621002	Collected: 03/09/21 00:00	Received: 03/09/21 17:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 12:10	03/12/21 12:10		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 12:10	03/12/21 12:10		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 12:10	03/12/21 12:10	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 12:10	03/12/21 12:10	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	95.2	%	70.0-130	1	03/12/21 12:10	03/12/21 12:10	615-59-8FID	
2,5-Dibromotoluene (PID)	92.5	%	70.0-130	1	03/12/21 12:10	03/12/21 12:10	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 03:43	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 00:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 00:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 00:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 00:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 00:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 00:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 00:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 00:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 00:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 00:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 00:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 00:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 00:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 00:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 00:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 00:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 00:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 00:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 00:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 00:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:37	594-20-7	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

Sample: <b>FB-1</b>	Lab ID: <b>92526621002</b>	Collected: 03/09/21 00:00	Received: 03/09/21 17:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 00:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 00:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 00:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 00:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 00:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 00:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 00:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 00:37	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 00:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 00:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 00:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 00:37	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 00:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 00:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 00:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 00:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 00:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 00:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 00:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 00:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 00:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 00:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 00:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 00:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 00:37	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/12/21 00:37	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		03/12/21 00:37	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 00:37	2037-26-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

Sample: Trip Blank		Lab ID: 92526621003	Collected: 03/09/21 00:00	Received: 03/09/21 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/12/21 00:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 00:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 00:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 00:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 00:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 00:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 00:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 00:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 00:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 00:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 00:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 00:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 00:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 00:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 00:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 00:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 00:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 00:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 00:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 00:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 00:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 00:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 00:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 00:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 00:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 00:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 00:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 00:55	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 00:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 00:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 00:55	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

Sample: Trip Blank	Lab ID: 92526621003		Collected: 03/09/21 00:00	Received: 03/09/21 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 00:55	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 00:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 00:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 00:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 00:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 00:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 00:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 00:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 00:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 00:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 00:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 00:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 00:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 00:55	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/12/21 00:55	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/12/21 00:55	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 00:55	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

QC Batch: 1633636	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526621001, 92526621002

METHOD BLANK: R3630856-3 Matrix: Water

Associated Lab Samples: 92526621001, 92526621002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/12/21 08:56	
Aliphatic (C09-C12)	ug/L	ND	100	03/12/21 08:56	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/12/21 08:56	
Total VPH	ug/L	ND	100	03/12/21 08:56	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	03/12/21 08:56	
2,5-Dibromotoluene (PID)	%	90.8	70.0-130	03/12/21 08:56	

LABORATORY CONTROL SAMPLE & LCSD: R3630856-1 R3630856-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1310	1300	109	108	70.0-130	0.766	25	
Aliphatic (C09-C12)	ug/L	1400	1660	1640	119	117	70.0-130	1.21	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	229	226	115	113	70.0-130	1.32	25	
Total VPH	ug/L	2800	3200	3170	114	113	70.0-130	0.942	25	
2,5-Dibromotoluene (FID)	%				94.3	99.6	70.0-130			
2,5-Dibromotoluene (PID)	%				93.2	97.1	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

QC Batch: 605753

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526621001, 92526621002

METHOD BLANK: 3191500

Matrix: Water

Associated Lab Samples: 92526621001, 92526621002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/14/21 01:04	

LABORATORY CONTROL SAMPLE: 3191501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	460	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3191502 3191503

Parameter	Units	92525449001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result	% Rec	% Rec					
Lead	ug/L	ND	500	466	500	473	93	95	75-125	1			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526621

QC Batch: 605982 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92526621001, 92526621002, 92526621003

METHOD BLANK: 3192559 Matrix: Water  
Associated Lab Samples: 92526621001, 92526621002, 92526621003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
Benzene	ug/L	ND	0.50	03/11/21 23:07	
Bromobenzene	ug/L	ND	0.50	03/11/21 23:07	
Bromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromoform	ug/L	ND	0.50	03/11/21 23:07	
Bromomethane	ug/L	ND	5.0	03/11/21 23:07	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 23:07	
Chlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
Chloroethane	ug/L	ND	1.0	03/11/21 23:07	
Chloroform	ug/L	ND	0.50	03/11/21 23:07	
Chloromethane	ug/L	ND	1.0	03/11/21 23:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Dibromomethane	ug/L	ND	0.50	03/11/21 23:07	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 23:07	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 23:07	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

METHOD BLANK: 3192559

Matrix: Water

Associated Lab Samples: 92526621001, 92526621002, 92526621003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 23:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 23:07	
m&p-Xylene	ug/L	ND	1.0	03/11/21 23:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 23:07	
Methylene Chloride	ug/L	ND	2.0	03/11/21 23:07	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Naphthalene	ug/L	ND	2.0	03/11/21 23:07	
o-Xylene	ug/L	ND	0.50	03/11/21 23:07	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Styrene	ug/L	ND	0.50	03/11/21 23:07	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 23:07	
Toluene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Trichloroethene	ug/L	ND	0.50	03/11/21 23:07	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 23:07	
Vinyl chloride	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/11/21 23:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/11/21 23:07	
Toluene-d8 (S)	%	100	70-130	03/11/21 23:07	

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	60-140	
1,1,1-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,2-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	46.5	93	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	46.6	93	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.9	88	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane	ug/L	50	46.7	93	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92526621

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.3	93	60-140	
1,3-Dichloropropane	ug/L	50	48.1	96	60-140	
1,4-Dichlorobenzene	ug/L	50	44.5	89	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	47.5	95	60-140	
4-Chlorotoluene	ug/L	50	44.3	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	49.5	99	60-140	
Bromochloromethane	ug/L	50	51.3	103	60-140	
Bromodichloromethane	ug/L	50	46.9	94	60-140	
Bromoform	ug/L	50	47.7	95	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	54.3	109	60-140	
Chlorobenzene	ug/L	50	47.5	95	60-140	
Chloroethane	ug/L	50	44.7	89	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	37.6	75	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	60-140	
Dibromochloromethane	ug/L	50	53.7	107	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	45.8	92	60-140	
Ethylbenzene	ug/L	50	45.5	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	60-140	
m&p-Xylene	ug/L	100	94.1	94	60-140	
Methyl-tert-butyl ether	ug/L	50	49.0	98	60-140	
Methylene Chloride	ug/L	50	45.2	90	60-140	
n-Butylbenzene	ug/L	50	42.1	84	60-140	
n-Propylbenzene	ug/L	50	44.4	89	60-140	
Naphthalene	ug/L	50	46.8	94	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	42.4	85	60-140	
Styrene	ug/L	50	48.8	98	60-140	
tert-Butylbenzene	ug/L	50	38.0	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	48.6	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	60-140	
Trichloroethene	ug/L	50	49.8	100	60-140	
Trichlorofluoromethane	ug/L	50	43.6	87	60-140	
Vinyl chloride	ug/L	50	40.1	80	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			106	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

Parameter	92526257003		MS	MSD	3192561		3192562		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	441	426	110	106	60-140	3			
1,1,1-Trichloroethane	ug/L	ND	400	400	439	437	110	109	60-140	0			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	420	400	105	100	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	400	400	427	400	107	100	60-140	6			
1,1-Dichloroethane	ug/L	ND	400	400	421	425	105	106	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	481	456	120	114	60-140	5			
1,1-Dichloropropene	ug/L	ND	400	400	416	421	104	105	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	327	356	82	89	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	400	400	394	378	99	95	60-140	4			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	346	361	86	90	60-140	4			
1,2,4-Trimethylbenzene	ug/L	148	400	400	537	531	97	96	60-140	1			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	424	409	106	102	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	449	416	112	104	60-140	8			
1,2-Dichlorobenzene	ug/L	ND	400	400	391	392	98	98	60-140	0			
1,2-Dichloroethane	ug/L	ND	400	400	402	411	101	103	60-140	2			
1,2-Dichloropropane	ug/L	ND	400	400	469	427	117	107	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	432	413	108	103	60-140	4			
1,3-Dichlorobenzene	ug/L	ND	400	400	410	401	103	100	60-140	2			
1,3-Dichloropropane	ug/L	ND	400	400	417	425	104	106	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	400	400	383	380	96	95	60-140	1			
2,2-Dichloropropane	ug/L	ND	400	400	355	358	89	89	60-140	1			
2-Chlorotoluene	ug/L	ND	400	400	411	417	103	104	60-140	1			
4-Chlorotoluene	ug/L	ND	400	400	399	382	100	96	60-140	4			
Benzene	ug/L	2140	400	400	2580	2600	111	114	60-140	1			
Bromobenzene	ug/L	ND	400	400	435	417	109	104	60-140	4			
Bromochloromethane	ug/L	ND	400	400	436	412	109	103	60-140	6			
Bromodichloromethane	ug/L	ND	400	400	419	405	105	101	60-140	4			
Bromoform	ug/L	ND	400	400	381	362	95	91	60-140	5			
Bromomethane	ug/L	ND	400	400	466	515	117	129	60-140	10			
Carbon tetrachloride	ug/L	ND	400	400	449	434	112	108	60-140	4			
Chlorobenzene	ug/L	ND	400	400	441	427	110	107	60-140	3			
Chloroethane	ug/L	ND	400	400	405	390	101	98	60-140	4			
Chloroform	ug/L	ND	400	400	438	424	109	106	60-140	3			
Chloromethane	ug/L	ND	400	400	366	367	92	92	60-140	0			
cis-1,2-Dichloroethene	ug/L	ND	400	400	406	409	101	102	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	433	421	108	105	60-140	3			
Dibromochloromethane	ug/L	ND	400	400	442	426	110	106	60-140	4			
Dibromomethane	ug/L	ND	400	400	442	444	110	111	60-140	1			
Dichlorodifluoromethane	ug/L	ND	400	400	404	390	101	97	60-140	4			
Diisopropyl ether	ug/L	227	400	400	627	627	100	100	60-140	0			
Ethylbenzene	ug/L	151	400	400	579	569	107	105	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	384	395	96	99	60-140	3			
Isopropylbenzene (Cumene)	ug/L	ND	400	400	429	410	107	103	60-140	5			
m&p-Xylene	ug/L	838	800	800	1750	1730	115	112	60-140	1			
Methyl-tert-butyl ether	ug/L	65.7	400	400	477	466	103	100	60-140	2			
Methylene Chloride	ug/L	ND	400	400	414	407	98	96	60-140	2			

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: 2020-L1-2448 Incident  
Pace Project No.: 92526621

Parameter	92526257003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	369	356	92	89	60-140	4				
n-Propylbenzene	ug/L	ND	400	400	413	396	103	99	60-140	4				
Naphthalene	ug/L	155	400	400	394	411	60	64	60-140	4				
o-Xylene	ug/L	465	400	400	915	910	113	111	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	408	389	102	97	60-140	5				
Styrene	ug/L	ND	400	400	424	411	106	103	60-140	3				
tert-Butylbenzene	ug/L	ND	400	400	367	349	92	87	60-140	5				
Tetrachloroethene	ug/L	ND	400	400	421	414	105	104	60-140	2				
Toluene	ug/L	2440	400	400	2870	2880	109	109	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	400	400	424	418	106	104	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	400	400	417	413	104	103	60-140	1				
Trichloroethene	ug/L	ND	400	400	451	427	113	107	60-140	6				
Trichlorofluoromethane	ug/L	ND	400	400	446	440	112	110	60-140	1				
Vinyl chloride	ug/L	ND	400	400	405	404	101	101	60-140	0				
1,2-Dichloroethane-d4 (S)	%						98	97	70-130					
4-Bromofluorobenzene (S)	%						99	99	70-130					
Toluene-d8 (S)	%						99	97	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92526621

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526621001	DUP-1	MADEPV	1633636	MADEP VPH	1633636
92526621002	FB-1	MADEPV	1633636	MADEP VPH	1633636
92526621001	DUP-1	EPA 3010A	605753	EPA 6010D	605769
92526621002	FB-1	EPA 3010A	605753	EPA 6010D	605769
92526621001	DUP-1	SM 6200B	605982		
92526621002	FB-1	SM 6200B	605982		
92526621003	Trip Blank	SM 6200B	605982		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Pace Companies  
 Billing Information:  
 Report To: Andrew Street  
 Address: Andrew Street  
 Copy To: Andrew Street  
 Email To: Andrew Street  
 Site Collection Info/Address: Andrew Street 6 apex COS.COM

Customer Project Name/Number: 2020-01-2448 Incident  
 State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET  
 Site/Facility ID #: \_\_\_\_\_  
 Compliance Monitoring? [ ] Yes [ ] No  
 DW PWS ID #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_  
 Immediately Packed on Ice: [ ] Yes [ ] No  
 Turnaround Date Required: ASAP  
 Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)  
 Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp/Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
DUP-1	DW	G	3-9-21	-		8
FB-1	OT	G	↓	-		8
Trip Blank	OT	-	-	-		2

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: bubble bags  
 Radchem sample(s) screened (<500 cp/h): Y N NA

Relinquished by/Company: (Signature) Naomi Feb 1 Apex Date/Time: 3-9-21 1755 Received by/Company: (Signature) HO PACE TUL  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or WO#: **92526621**



Container PI: 92526621

\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) acetic acid, (5) methanol, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:	Lab Sample Receipt Checklist:
<u>DOCS 6200B</u>		Custody Seals Present/Intact Y <u>N</u> NA
<u>MADEP VPH</u>		Custody Signatures Present Y <u>N</u> NA
<u>Lead</u>		Collector Signature Present Y <u>N</u> NA
		Bottles Intact Y <u>N</u> NA
		Correct Bottles Y <u>N</u> NA
		Sufficient Volume Y <u>N</u> NA
		VOA - Headspace Acceptable Y <u>N</u> NA
		USDA Regulated Soils Y <u>N</u> NA
		Samples in Holding Time Y <u>N</u> NA
		Residual Chlorine Present Y <u>N</u> NA
		Cl Strips: <u>22 319 AV</u> Y <u>N</u> NA
		Sample pH Acceptable Y <u>N</u> NA
		pH Strips: <u>22 319 AV</u> Y <u>N</u> NA
		Sulfide Present Y <u>N</u> NA
		Lead Acetate Strips: Y <u>N</u> NA
		LAB USE ONLY: _____
		Lab Sample # / Comments: <u>92526621</u>

SHORT HOLDS PRESENT (<72 hours): Y N N/A  
 Lab Tracking #: 2615865  
 Samples received via: FEDEX UPS client Courier Pace Courier  
 Date/Time: 3/9/21 1755  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Table #: \_\_\_\_\_  
 Acctnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_  
 Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: 92526621  
 Cooler 1 Temp Upon Receipt: 28 oC  
 Cooler 1 Therm Corr. Factor: 0 oC  
 Cooler 1 Corrected Temp: 28 oC  
 Comments:  
 Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES / NO Page: \_\_\_\_\_ of: \_\_\_\_\_

March 22, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident  
Pace Project No.: 92527871

Dear Andrew Street:

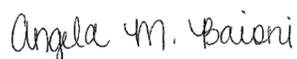
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527871

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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  
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 ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92527871

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527871001	14401_HC_RD_20210316	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527871

Sample: 14401_HC_RD_20210316	Lab ID: 92527871001	Collected: 03/16/21 10:45	Received: 03/16/21 12:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/18/21 06:03		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/18/21 06:03		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/18/21 06:03		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/18/21 06:03		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	104	%	70-130	1		03/18/21 06:03	460-00-4	
4-Bromofluorobenzene (PID) (S)	99	%	70-130	1		03/18/21 06:03	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 16:09	03/18/21 22:40	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/19/21 20:41	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/19/21 20:41	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/19/21 20:41	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/19/21 20:41	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/19/21 20:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/19/21 20:41	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:41	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:41	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/19/21 20:41	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/19/21 20:41	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/19/21 20:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/19/21 20:41	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/19/21 20:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/19/21 20:41	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 20:41	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/19/21 20:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/19/21 20:41	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/19/21 20:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/19/21 20:41	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/19/21 20:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/19/21 20:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/19/21 20:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/19/21 20:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/19/21 20:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/19/21 20:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/19/21 20:41	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527871

**Sample: 14401\_HC\_RD\_20210316**    **Lab ID: 92527871001**    Collected: 03/16/21 10:45    Received: 03/16/21 12:55    Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/19/21 20:41	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/19/21 20:41	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/19/21 20:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/19/21 20:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/19/21 20:41	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/19/21 20:41	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/19/21 20:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/19/21 20:41	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/19/21 20:41	103-65-1	
Styrene	ND	ug/L	0.50	1		03/19/21 20:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 20:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/19/21 20:41	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/19/21 20:41	127-18-4	
Toluene	ND	ug/L	0.50	1		03/19/21 20:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 20:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/19/21 20:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/19/21 20:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/19/21 20:41	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/19/21 20:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/19/21 20:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/19/21 20:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 20:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/19/21 20:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/19/21 20:41	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/19/21 20:41	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/19/21 20:41	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/19/21 20:41	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		03/19/21 20:41	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/19/21 20:41	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527871

QC Batch: 607250

Analysis Method: MADEP VPH

QC Batch Method: MADEP VPH

Analysis Description: VPH NC Water

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527871001

METHOD BLANK: 3199083

Matrix: Water

Associated Lab Samples: 92527871001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/17/21 15:18	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/17/21 15:18	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/17/21 15:18	N2
4-Bromofluorobenzene (FID) (S)	%	110	70-130	03/17/21 15:18	
4-Bromofluorobenzene (PID) (S)	%	104	70-130	03/17/21 15:18	

LABORATORY CONTROL SAMPLE & LCSD: 3199084

3199085

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	331	354	110	118	70-130	7	25	N2
Aliphatic (C09-C12)	ug/L	300	349	357	116	119	70-130	2	25	N2
Aromatic (C09-C10)	ug/L	100	100	103	100	103	70-130	3	25	N2
4-Bromofluorobenzene (FID) (S)	%				108	115	70-130			
4-Bromofluorobenzene (PID) (S)	%				102	109	70-130			

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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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527871

QC Batch: 607152

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92527871001

METHOD BLANK: 3198608

Matrix: Water

Associated Lab Samples: 92527871001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/18/21 22:07	

LABORATORY CONTROL SAMPLE: 3198609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198630 3198631

Parameter	Units	92527853001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	499	498	99	99	75-125	0		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527871

QC Batch: 607961	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527871001

METHOD BLANK: 3202611 Matrix: Water

Associated Lab Samples: 92527871001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1-Dichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,1-Dichloroethene	ug/L	ND	0.50	03/19/21 12:35	
1,1-Dichloropropene	ug/L	ND	0.50	03/19/21 12:35	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/19/21 12:35	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/19/21 12:35	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/19/21 12:35	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/19/21 12:35	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dichloroethane	ug/L	ND	0.50	03/19/21 12:35	
1,2-Dichloropropane	ug/L	ND	0.50	03/19/21 12:35	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/19/21 12:35	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
1,3-Dichloropropane	ug/L	ND	0.50	03/19/21 12:35	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
2,2-Dichloropropane	ug/L	ND	0.50	03/19/21 12:35	
2-Chlorotoluene	ug/L	ND	0.50	03/19/21 12:35	
4-Chlorotoluene	ug/L	ND	0.50	03/19/21 12:35	
Benzene	ug/L	ND	0.50	03/19/21 12:35	
Bromobenzene	ug/L	ND	0.50	03/19/21 12:35	
Bromochloromethane	ug/L	ND	0.50	03/19/21 12:35	
Bromodichloromethane	ug/L	ND	0.50	03/19/21 12:35	
Bromoform	ug/L	ND	0.50	03/19/21 12:35	
Bromomethane	ug/L	ND	5.0	03/19/21 12:35	
Carbon tetrachloride	ug/L	ND	0.50	03/19/21 12:35	
Chlorobenzene	ug/L	ND	0.50	03/19/21 12:35	
Chloroethane	ug/L	ND	1.0	03/19/21 12:35	
Chloroform	ug/L	ND	0.50	03/19/21 12:35	
Chloromethane	ug/L	ND	1.0	03/19/21 12:35	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 12:35	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 12:35	
Dibromochloromethane	ug/L	ND	0.50	03/19/21 12:35	
Dibromomethane	ug/L	ND	0.50	03/19/21 12:35	
Dichlorodifluoromethane	ug/L	ND	0.50	03/19/21 12:35	
Diisopropyl ether	ug/L	ND	0.50	03/19/21 12:35	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527871

METHOD BLANK: 3202611

Matrix: Water

Associated Lab Samples: 92527871001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/19/21 12:35	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/19/21 12:35	
m&p-Xylene	ug/L	ND	1.0	03/19/21 12:35	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/19/21 12:35	
Methylene Chloride	ug/L	ND	2.0	03/19/21 12:35	
n-Butylbenzene	ug/L	ND	0.50	03/19/21 12:35	
n-Propylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Naphthalene	ug/L	ND	2.0	03/19/21 12:35	
o-Xylene	ug/L	ND	0.50	03/19/21 12:35	
sec-Butylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Styrene	ug/L	ND	0.50	03/19/21 12:35	
tert-Butylbenzene	ug/L	ND	0.50	03/19/21 12:35	
Tetrachloroethene	ug/L	ND	0.50	03/19/21 12:35	
Toluene	ug/L	ND	0.50	03/19/21 12:35	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/19/21 12:35	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/19/21 12:35	
Trichloroethene	ug/L	ND	0.50	03/19/21 12:35	
Trichlorofluoromethane	ug/L	ND	1.0	03/19/21 12:35	
Vinyl chloride	ug/L	ND	1.0	03/19/21 12:35	
1,2-Dichloroethane-d4 (S)	%	95	70-130	03/19/21 12:35	
4-Bromofluorobenzene (S)	%	94	70-130	03/19/21 12:35	
Toluene-d8 (S)	%	98	70-130	03/19/21 12:35	

LABORATORY CONTROL SAMPLE: 3202612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.7	93	60-140	
1,1,1-Trichloroethane	ug/L	50	43.3	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	44.0	88	60-140	
1,1,2-Trichloroethane	ug/L	50	45.9	92	60-140	
1,1-Dichloroethane	ug/L	50	43.2	86	60-140	
1,1-Dichloroethene	ug/L	50	45.5	91	60-140	
1,1-Dichloropropene	ug/L	50	44.3	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.2	94	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	60-140	
1,2,4-Trimethylbenzene	ug/L	50	44.8	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	46.2	92	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	46.2	92	60-140	
1,2-Dichlorobenzene	ug/L	50	47.5	95	60-140	
1,2-Dichloroethane	ug/L	50	40.2	80	60-140	
1,2-Dichloropropane	ug/L	50	44.1	88	60-140	
1,3,5-Trimethylbenzene	ug/L	50	44.4	89	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527871

LABORATORY CONTROL SAMPLE: 3202612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.5	97	60-140	
1,3-Dichloropropane	ug/L	50	44.3	89	60-140	
1,4-Dichlorobenzene	ug/L	50	48.6	97	60-140	
2,2-Dichloropropane	ug/L	50	45.6	91	60-140	
2-Chlorotoluene	ug/L	50	44.9	90	60-140	
4-Chlorotoluene	ug/L	50	44.6	89	60-140	
Benzene	ug/L	50	44.2	88	60-140	
Bromobenzene	ug/L	50	45.3	91	60-140	
Bromochloromethane	ug/L	50	46.8	94	60-140	
Bromodichloromethane	ug/L	50	42.7	85	60-140	
Bromoform	ug/L	50	46.0	92	60-140	
Bromomethane	ug/L	50	39.8	80	60-140	
Carbon tetrachloride	ug/L	50	47.9	96	60-140	
Chlorobenzene	ug/L	50	47.6	95	60-140	
Chloroethane	ug/L	50	44.4	89	60-140	
Chloroform	ug/L	50	44.2	88	60-140	
Chloromethane	ug/L	50	35.4	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	41.9	84	60-140	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	60-140	
Dibromochloromethane	ug/L	50	47.2	94	60-140	
Dibromomethane	ug/L	50	48.9	98	60-140	
Dichlorodifluoromethane	ug/L	50	45.7	91	60-140	
Diisopropyl ether	ug/L	50	39.4	79	60-140	
Ethylbenzene	ug/L	50	46.4	93	60-140	
Hexachloro-1,3-butadiene	ug/L	50	45.3	91	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.6	95	60-140	
m&p-Xylene	ug/L	100	93.4	93	60-140	
Methyl-tert-butyl ether	ug/L	50	42.3	85	60-140	
Methylene Chloride	ug/L	50	43.4	87	60-140	
n-Butylbenzene	ug/L	50	45.9	92	60-140	
n-Propylbenzene	ug/L	50	44.5	89	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	46.5	93	60-140	
sec-Butylbenzene	ug/L	50	45.4	91	60-140	
Styrene	ug/L	50	47.5	95	60-140	
tert-Butylbenzene	ug/L	50	38.2	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	46.8	94	60-140	
trans-1,2-Dichloroethene	ug/L	50	43.3	87	60-140	
trans-1,3-Dichloropropene	ug/L	50	45.6	91	60-140	
Trichloroethene	ug/L	50	49.0	98	60-140	
Trichlorofluoromethane	ug/L	50	47.4	95	60-140	
Vinyl chloride	ug/L	50	41.5	83	60-140	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92527871

Parameter	92527425008		MS	MSD	3202613		3202614		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4110	4170	103	104	60-140	2			
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4020	98	100	60-140	2			
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3930	4000	98	100	60-140	2			
1,1,2-Trichloroethane	ug/L	ND	4000	4000	4090	4120	102	103	60-140	1			
1,1-Dichloroethane	ug/L	ND	4000	4000	3770	3800	94	95	60-140	1			
1,1-Dichloroethene	ug/L	ND	4000	4000	4190	4210	105	105	60-140	1			
1,1-Dichloropropene	ug/L	ND	4000	4000	4000	4030	100	101	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	4080	4550	102	114	60-140	11			
1,2,3-Trichloropropane	ug/L	ND	4000	4000	4110	4370	103	109	60-140	6			
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	4310	4670	108	117	60-140	8			
1,2,4-Trimethylbenzene	ug/L	11100	4000	4000	15000	16600	99	138	60-140	10			
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	4070	4200	102	105	60-140	3			
1,2-Dibromoethane (EDB)	ug/L	ND	4000	4000	4080	4120	102	103	60-140	1			
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4240	4400	106	110	60-140	4			
1,2-Dichloroethane	ug/L	ND	4000	4000	3540	3570	88	89	60-140	1			
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3900	98	97	60-140	1			
1,3,5-Trimethylbenzene	ug/L	2940	4000	4000	6940	7440	100	113	60-140	7			
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4340	4490	108	112	60-140	3			
1,3-Dichloropropane	ug/L	ND	4000	4000	3920	4000	98	100	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4330	4490	108	112	60-140	4			
2,2-Dichloropropane	ug/L	ND	4000	4000	4130	4170	103	104	60-140	1			
2-Chlorotoluene	ug/L	ND	4000	4000	4560	4420	114	110	60-140	3			
4-Chlorotoluene	ug/L	ND	4000	4000	4040	4100	101	102	60-140	1			
Benzene	ug/L	7950	4000	4000	12000	12300	100	108	60-140	3			
Bromobenzene	ug/L	ND	4000	4000	4100	4140	103	103	60-140	1			
Bromochloromethane	ug/L	ND	4000	4000	4000	4010	100	100	60-140	0			
Bromodichloromethane	ug/L	ND	4000	4000	3720	3820	93	95	60-140	3			
Bromoform	ug/L	ND	4000	4000	3890	4030	97	101	60-140	4			
Bromomethane	ug/L	ND	4000	4000	3120	4120	78	103	60-140	27			
Carbon tetrachloride	ug/L	ND	4000	4000	4450	4430	111	111	60-140	1			
Chlorobenzene	ug/L	ND	4000	4000	4270	4340	107	108	60-140	1			
Chloroethane	ug/L	ND	4000	4000	5050	4990	126	125	60-140	1			
Chloroform	ug/L	ND	4000	4000	3650	3770	91	94	60-140	3			
Chloromethane	ug/L	ND	4000	4000	3070	3200	77	80	60-140	4			
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3680	3760	92	94	60-140	2			
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	4040	4090	101	102	60-140	1			
Dibromochloromethane	ug/L	ND	4000	4000	4080	4160	102	104	60-140	2			
Dibromomethane	ug/L	ND	4000	4000	4190	4320	105	108	60-140	3			
Dichlorodifluoromethane	ug/L	ND	4000	4000	4160	4230	104	106	60-140	2			
Diisopropyl ether	ug/L	ND	4000	4000	3340	3450	84	86	60-140	3			
Ethylbenzene	ug/L	4850	4000	4000	9040	9460	105	115	60-140	5			
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	4210	4660	105	116	60-140	10			
Isopropylbenzene (Cumene)	ug/L	413	4000	4000	4710	4850	107	111	60-140	3			
m&p-Xylene	ug/L	13700	8000	8000	22300	23400	108	121	60-140	5			
Methyl-tert-butyl ether	ug/L	ND	4000	4000	3760	3810	94	95	60-140	1			
Methylene Chloride	ug/L	ND	4000	4000	3780	3830	95	96	60-140	1			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident  
Pace Project No.: 92527871

Parameter	Units	92527425008		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	4000	4000	4000	5150	5520	129	138	60-140	7				
n-Propylbenzene	ug/L	ND	4000	4000	4000	5430	5710	136	143	60-140	5	M1			
Naphthalene	ug/L	3570	4000	4000	4000	7380	8140	95	114	60-140	10				
o-Xylene	ug/L	5180	4000	4000	4000	9300	9820	103	116	60-140	5				
sec-Butylbenzene	ug/L	ND	4000	4000	4000	4420	4620	111	115	60-140	4				
Styrene	ug/L	ND	4000	4000	4000	4220	4300	105	108	60-140	2				
tert-Butylbenzene	ug/L	ND	4000	4000	4000	3560	3640	89	91	60-140	2				
Tetrachloroethene	ug/L	ND	4000	4000	4000	4320	4330	108	108	60-140	0				
Toluene	ug/L	7220	4000	4000	4000	11400	11500	104	108	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	4000	3860	4040	96	101	60-140	5				
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	4000	3930	4030	98	101	60-140	2				
Trichloroethene	ug/L	ND	4000	4000	4000	4380	4430	110	111	60-140	1				
Trichlorofluoromethane	ug/L	ND	4000	4000	4000	5000	5150	125	129	60-140	3				
Vinyl chloride	ug/L	ND	4000	4000	4000	3730	3840	93	96	60-140	3				
1,2-Dichloroethane-d4 (S)	%							95	92	70-130					
4-Bromofluorobenzene (S)	%							97	98	70-130					
Toluene-d8 (S)	%							99	98	70-130					

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## QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92527871

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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.

### ANALYTE QUALIFIERS

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92527871

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527871001	14401_HC_RD_20210316	MADEP VPH	607250		
92527871001	14401_HC_RD_20210316	EPA 3010A	607152	EPA 6010D	607431
92527871001	14401_HC_RD_20210316	SM 6200B	607961		

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB U

**NO# : 92527871**

1st Pace Workorder Number or

Cont.

**92527871**

Y

Company: Apex Companies  
 Billing Information:  
 Report To: Andrew Stratt  
 Email To: Andrew.Stratt@apex.com  
 Copy To: Andrew Stratt  
 Site Collection Info/Address: 1401 Huntsville Boulevard

Customer Project Name/Number: 2020-11-2448  
 State: NC  
 County/City: Hendersonville  
 Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone: [ ] Compliance Monitoring? [ ] Yes [ ] No  
 Email: [ ] DW Location Code:  
 Site/Facility ID #: [ ] Immediately Packed on Ice:  
 Purch Order #: [ ] Yes [ ] No  
 Quote #:

Collected By (print): Naomi Fretz  
 Turnaround Date Required: ASAP  
 Collected By (signature): Naomi Fretz  
 Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 Sample Disposal: [ ] Dispose as appropriate [ ] Return  
 [ ] Archive: [ ] Hold: [ ] Expedite Charges Apply

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: 1441.HC.RD.201036  
 Matrix\*: DW  
 Comp/Grab: G  
 Collected (or Composite Start) Date/Time: 3-16-21 10:45  
 Composite End Date/Time: [ ]  
 Res CI # of Clns: 8

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date/Time	Composite End Date/Time	Res CI	# of Clns
1441.HC.RD.201036	DW	G	3-16-21 10:45			8

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfite, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Sample Receipt Checklist:  
 Custody Seals Present / Intact: Y [ ] N [ ] NA [ ]  
 Collector Signatures Present: Y [ ] N [ ] NA [ ]  
 Bottles Intact: Y [ ] N [ ] NA [ ]  
 Correct Bottles: Y [ ] N [ ] NA [ ]  
 Sufficient Volume: Y [ ] N [ ] NA [ ]  
 Samples Received on Ice: Y [ ] N [ ] NA [ ]  
 VOA - Headspace Acceptable: Y [ ] N [ ] NA [ ]  
 USDA Regulated Soils: Y [ ] N [ ] NA [ ]  
 Samples in Holding Time: Y [ ] N [ ] NA [ ]  
 Residual Chlorine Present: Y [ ] N [ ] NA [ ]  
 CI Strips: Y [ ] N [ ] NA [ ]  
 Sample pH Acceptable: Y [ ] N [ ] NA [ ]  
 pH Strips: 12.36/11.14 Y [ ] N [ ] NA [ ]  
 Sulfide Present: Y [ ] N [ ] NA [ ]  
 Lead Acetate Strips: Y [ ] N [ ] NA [ ]

LAB USE ONLY:  
 Lab Sample # / Comments: 92527871  
 OCV

SHORT HOLDS PRESENT (<72 hours): Y [ ] N [ ]  
 Lab Tracking #: 2615896  
 Samples received via: Client  
 FEDEX UPS  
 Date/Time: 3-16-21 12:55  
 Received by/Company: (Signature)  
 MDeRoe HVC

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: BR  
 Radchem sample(s) screened (<500 cpm): Y [ ] N [ ]  
 Relinquished by/Company: (Signature) Naomi Stratt  
 Date/Time: 3-16-21 12:55  
 Received by/Company: (Signature) MDeRoe HVC  
 Date/Time: 3-16-21 12:55  
 Relinquished by/Company: (Signature)  
 Date/Time:  
 Table #: [ ]  
 Acctnum: [ ]  
 Template: [ ]  
 Prelogin: [ ]  
 PM: [ ]  
 PB: [ ]  
 Trip Blank Received: Y [ ] N [ ] NA [ ]  
 HCL MeOH TSP Other  
 Non Conformance(s): [ ]  
 Page: [ ] of: [ ]



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

Project #

**WO#: 92527871**

PM: AMB

Due Date: 03/23/21

CLIENT: 92-APEX MOOR

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

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

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 Na2SO3 (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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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).

March 15, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526257001	MW-16	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526257002	MW-17	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526257003	MW-19	MADEP VPH	BMB, JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526257004	MW-21	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92526257005	MW-23	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526257006	MW-28	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526257007	MW-31	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526257008	MW-77	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526257009	MW-78	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526257010	DUP-1-20210308	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526257011	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Sample: MW-16	Lab ID: 92526257001	Collected: 03/08/21 10:00	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 05:22	03/11/21 05:22		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 05:22	03/11/21 05:22		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 05:22	03/11/21 05:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 05:22	03/11/21 05:22	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	83.4	%	70.0-130	1	03/11/21 05:22	03/11/21 05:22	615-59-8FID	
2,5-Dibromotoluene (PID)	82.0	%	70.0-130	1	03/11/21 05:22	03/11/21 05:22	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:03	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 13:44	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 13:44	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 13:44	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 13:44	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 13:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 13:44	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:44	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:44	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:44	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 13:44	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 13:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 13:44	75-00-3	
Chloroform	<b>0.91</b>	ug/L	0.50	1		03/10/21 13:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 13:44	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:44	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 13:44	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 13:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 13:44	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 13:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 13:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:44	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-16		Lab ID: 92526257001		Collected: 03/08/21 10:00	Received: 03/08/21 17:48	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:44	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 13:44	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 13:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 13:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 13:44	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 13:44	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 13:44	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 13:44	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 13:44	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 13:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:44	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 13:44	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 13:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:44	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 13:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 13:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 13:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 13:44	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 13:44	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 13:44	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/10/21 13:44	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		03/10/21 13:44	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/10/21 13:44	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-17	Lab ID: 92526257002	Collected: 03/08/21 14:20	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 05:55	03/11/21 05:55		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 05:55	03/11/21 05:55		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 05:55	03/11/21 05:55	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 05:55	03/11/21 05:55	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	73.6	%	70.0-130	1	03/11/21 05:55	03/11/21 05:55	615-59-8FID	
2,5-Dibromotoluene (PID)	75.9	%	70.0-130	1	03/11/21 05:55	03/11/21 05:55	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:16	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 13:26	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 13:26	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 13:26	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 13:26	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 13:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 13:26	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:26	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:26	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:26	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 13:26	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 13:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 13:26	75-00-3	
Chloroform	5.3	ug/L	0.50	1		03/10/21 13:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 13:26	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:26	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 13:26	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 13:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 13:26	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 13:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 13:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:26	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-17	Lab ID: 92526257002	Collected: 03/08/21 14:20	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:26	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 13:26	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 13:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 13:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 13:26	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 13:26	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 13:26	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 13:26	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 13:26	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 13:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:26	79-34-5	
Tetrachloroethene	<b>0.77</b>	ug/L	0.50	1		03/10/21 13:26	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 13:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:26	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 13:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 13:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 13:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 13:26	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 13:26	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 13:26	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		03/10/21 13:26	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/10/21 13:26	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/10/21 13:26	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Sample: MW-19	Lab ID: 92526257003	Collected: 03/08/21 13:25	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	10000	ug/L	500	5	03/14/21 18:24	03/14/21 18:24		
Aliphatic (C09-C12)	2080	ug/L	100	1	03/11/21 06:28	03/11/21 06:28		
Aromatic (C09-C10),Unadjusted	473	ug/L	100	1	03/11/21 06:28	03/11/21 06:28	TPHC9C10A	
Total VPH	12600	ug/L	500	5	03/14/21 18:24	03/14/21 18:24	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	89.8	%	70.0-130	1	03/11/21 06:28	03/11/21 06:28	615-59-8FID	
2,5-Dibromotoluene (FID)	98.7	%	70.0-130	5	03/14/21 18:24	03/14/21 18:24	615-59-8FID	
2,5-Dibromotoluene (PID)	88.9	%	70.0-130	1	03/11/21 06:28	03/11/21 06:28	615-59-8PID	
2,5-Dibromotoluene (PID)	95.1	%	70.0-130	5	03/14/21 18:24	03/14/21 18:24	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:32	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	2140	ug/L	10.0	20		03/12/21 05:26	71-43-2	
Bromobenzene	ND	ug/L	10.0	20		03/12/21 05:26	108-86-1	
Bromochloromethane	ND	ug/L	10.0	20		03/12/21 05:26	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	20		03/12/21 05:26	75-27-4	
Bromoform	ND	ug/L	10.0	20		03/12/21 05:26	75-25-2	
Bromomethane	ND	ug/L	100	20		03/12/21 05:26	74-83-9	
n-Butylbenzene	ND	ug/L	10.0	20		03/12/21 05:26	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	20		03/12/21 05:26	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	20		03/12/21 05:26	98-06-6	
Carbon tetrachloride	ND	ug/L	10.0	20		03/12/21 05:26	56-23-5	
Chlorobenzene	ND	ug/L	10.0	20		03/12/21 05:26	108-90-7	
Chloroethane	ND	ug/L	20.0	20		03/12/21 05:26	75-00-3	
Chloroform	ND	ug/L	10.0	20		03/12/21 05:26	67-66-3	
Chloromethane	ND	ug/L	20.0	20		03/12/21 05:26	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	20		03/12/21 05:26	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	20		03/12/21 05:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	20		03/12/21 05:26	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	20		03/12/21 05:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	20		03/12/21 05:26	106-93-4	
Dibromomethane	ND	ug/L	10.0	20		03/12/21 05:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	20		03/12/21 05:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	20		03/12/21 05:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	20		03/12/21 05:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	20		03/12/21 05:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	20		03/12/21 05:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	20		03/12/21 05:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	20		03/12/21 05:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	20		03/12/21 05:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	20		03/12/21 05:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	20		03/12/21 05:26	78-87-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-19	Lab ID: 92526257003	Collected: 03/08/21 13:25	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,3-Dichloropropane	ND	ug/L	10.0	20		03/12/21 05:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	20		03/12/21 05:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	20		03/12/21 05:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	20		03/12/21 05:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	20		03/12/21 05:26	10061-02-6	
Diisopropyl ether	<b>227</b>	ug/L	10.0	20		03/12/21 05:26	108-20-3	
Ethylbenzene	<b>151</b>	ug/L	10.0	20		03/12/21 05:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	40.0	20		03/12/21 05:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	20		03/12/21 05:26	98-82-8	
Methylene Chloride	ND	ug/L	40.0	20		03/12/21 05:26	75-09-2	
Methyl-tert-butyl ether	<b>65.7</b>	ug/L	10.0	20		03/12/21 05:26	1634-04-4	
Naphthalene	<b>155</b>	ug/L	40.0	20		03/12/21 05:26	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	20		03/12/21 05:26	103-65-1	
Styrene	ND	ug/L	10.0	20		03/12/21 05:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	20		03/12/21 05:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	20		03/12/21 05:26	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	20		03/12/21 05:26	127-18-4	
Toluene	<b>2440</b>	ug/L	10.0	20		03/12/21 05:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	40.0	20		03/12/21 05:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	40.0	20		03/12/21 05:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	20		03/12/21 05:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	20		03/12/21 05:26	79-00-5	
Trichloroethene	ND	ug/L	10.0	20		03/12/21 05:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		03/12/21 05:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	20		03/12/21 05:26	96-18-4	
1,2,4-Trimethylbenzene	<b>148</b>	ug/L	10.0	20		03/12/21 05:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	20		03/12/21 05:26	108-67-8	
Vinyl chloride	ND	ug/L	20.0	20		03/12/21 05:26	75-01-4	
m&p-Xylene	<b>838</b>	ug/L	20.0	20		03/12/21 05:26	179601-23-1	
o-Xylene	<b>465</b>	ug/L	10.0	20		03/12/21 05:26	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	20		03/12/21 05:26	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	20		03/12/21 05:26	460-00-4	
Toluene-d8 (S)	100	%	70-130	20		03/12/21 05:26	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-21	Lab ID: 92526257004	Collected: 03/08/21 11:10	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	4420	ug/L	100	1	03/11/21 07:01	03/11/21 07:01		
Aliphatic (C09-C12)	480	ug/L	100	1	03/11/21 07:01	03/11/21 07:01		
Aromatic (C09-C10),Unadjusted	236	ug/L	100	1	03/11/21 07:01	03/11/21 07:01	TPHC9C10A	
Total VPH	5140	ug/L	100	1	03/11/21 07:01	03/11/21 07:01	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.1	%	70.0-130	1	03/11/21 07:01	03/11/21 07:01	615-59-8FID	
2,5-Dibromotoluene (PID)	90.9	%	70.0-130	1	03/11/21 07:01	03/11/21 07:01	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:36	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	1470	ug/L	5.0	10		03/10/21 17:18	71-43-2	
Bromobenzene	ND	ug/L	5.0	10		03/10/21 17:18	108-86-1	
Bromochloromethane	ND	ug/L	5.0	10		03/10/21 17:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	10		03/10/21 17:18	75-27-4	
Bromoform	ND	ug/L	5.0	10		03/10/21 17:18	75-25-2	
Bromomethane	ND	ug/L	50.0	10		03/10/21 17:18	74-83-9	
n-Butylbenzene	ND	ug/L	5.0	10		03/10/21 17:18	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	10		03/10/21 17:18	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	10		03/10/21 17:18	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	10		03/10/21 17:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	10		03/10/21 17:18	108-90-7	
Chloroethane	ND	ug/L	10.0	10		03/10/21 17:18	75-00-3	
Chloroform	ND	ug/L	5.0	10		03/10/21 17:18	67-66-3	
Chloromethane	ND	ug/L	10.0	10		03/10/21 17:18	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	10		03/10/21 17:18	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	10		03/10/21 17:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	10		03/10/21 17:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	10		03/10/21 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	10		03/10/21 17:18	106-93-4	
Dibromomethane	ND	ug/L	5.0	10		03/10/21 17:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	10		03/10/21 17:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	10		03/10/21 17:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	10		03/10/21 17:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	10		03/10/21 17:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	10		03/10/21 17:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	10		03/10/21 17:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	10		03/10/21 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	10		03/10/21 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	10		03/10/21 17:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	10		03/10/21 17:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	10		03/10/21 17:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	10		03/10/21 17:18	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-21	Lab ID: 92526257004	Collected: 03/08/21 11:10	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	5.0	10		03/10/21 17:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	10		03/10/21 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	10		03/10/21 17:18	10061-02-6	
Diisopropyl ether	192	ug/L	5.0	10		03/10/21 17:18	108-20-3	
Ethylbenzene	20.7	ug/L	5.0	10		03/10/21 17:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	10		03/10/21 17:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	10		03/10/21 17:18	98-82-8	
Methylene Chloride	ND	ug/L	20.0	10		03/10/21 17:18	75-09-2	
Methyl-tert-butyl ether	92.3	ug/L	5.0	10		03/10/21 17:18	1634-04-4	
Naphthalene	20.9	ug/L	20.0	10		03/10/21 17:18	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	10		03/10/21 17:18	103-65-1	
Styrene	ND	ug/L	5.0	10		03/10/21 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	10		03/10/21 17:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	10		03/10/21 17:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	10		03/10/21 17:18	127-18-4	
Toluene	156	ug/L	5.0	10		03/10/21 17:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	20.0	10		03/10/21 17:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	10		03/10/21 17:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	10		03/10/21 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	10		03/10/21 17:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	10		03/10/21 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		03/10/21 17:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	10		03/10/21 17:18	96-18-4	
1,2,4-Trimethylbenzene	47.7	ug/L	5.0	10		03/10/21 17:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	10		03/10/21 17:18	108-67-8	
Vinyl chloride	ND	ug/L	10.0	10		03/10/21 17:18	75-01-4	
m&p-Xylene	207	ug/L	10.0	10		03/10/21 17:18	179601-23-1	
o-Xylene	91.4	ug/L	5.0	10		03/10/21 17:18	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104	%	70-130	10		03/10/21 17:18	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	10		03/10/21 17:18	460-00-4	
Toluene-d8 (S)	99	%	70-130	10		03/10/21 17:18	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-23	Lab ID: 92526257005	Collected: 03/08/21 09:40	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 07:34	03/11/21 07:34		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 07:34	03/11/21 07:34		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 07:34	03/11/21 07:34	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 07:34	03/11/21 07:34	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	77.5	%	70.0-130	1	03/11/21 07:34	03/11/21 07:34	615-59-8FID	
2,5-Dibromotoluene (PID)	79.7	%	70.0-130	1	03/11/21 07:34	03/11/21 07:34	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:39	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 13:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 13:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 13:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 13:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 13:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 13:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 13:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 13:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 13:19	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 13:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 13:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 13:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 13:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 13:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 13:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 13:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:19	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-23	Lab ID: 92526257005	Collected: 03/08/21 09:40	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:19	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 13:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 13:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 13:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 13:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 13:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 13:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 13:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 13:19	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 13:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:19	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 13:19	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 13:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 13:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 13:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 13:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 13:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 13:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 13:19	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		03/10/21 13:19	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/10/21 13:19	460-00-4	
Toluene-d8 (S)	89	%	70-130	1		03/10/21 13:19	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-28	Lab ID: 92526257006	Collected: 03/08/21 11:50	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 08:07	03/11/21 08:07		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 08:07	03/11/21 08:07		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 08:07	03/11/21 08:07	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 08:07	03/11/21 08:07	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	75.9	%	70.0-130	1	03/11/21 08:07	03/11/21 08:07	615-59-8FID	
2,5-Dibromotoluene (PID)	79.4	%	70.0-130	1	03/11/21 08:07	03/11/21 08:07	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	9.4	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:42	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 13:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 13:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 13:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 13:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 13:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 13:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 13:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 13:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 13:01	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 13:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 13:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 13:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 13:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 13:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 13:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 13:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:01	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-28	Lab ID: 92526257006	Collected: 03/08/21 11:50	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:01	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 13:01	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 13:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 13:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 13:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 13:01	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 13:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 13:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 13:01	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 13:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:01	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 13:01	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 13:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 13:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 13:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 13:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 13:01	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 13:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 13:01	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/10/21 13:01	17060-07-0	
4-Bromofluorobenzene (S)	88	%	70-130	1		03/10/21 13:01	460-00-4	
Toluene-d8 (S)	109	%	70-130	1		03/10/21 13:01	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Sample: MW-31	Lab ID: 92526257007	Collected: 03/08/21 15:40	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 08:40	03/11/21 08:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 08:40	03/11/21 08:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 08:40	03/11/21 08:40	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 08:40	03/11/21 08:40	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	85.0	%	70.0-130	1	03/11/21 08:40	03/11/21 08:40	615-59-8FID	
2,5-Dibromotoluene (PID)	87.7	%	70.0-130	1	03/11/21 08:40	03/11/21 08:40	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:45	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 13:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 13:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 13:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 13:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 13:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 13:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 13:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 13:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 13:55	75-00-3	
Chloroform	1.0	ug/L	0.50	1		03/10/21 13:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 13:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 13:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 13:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 13:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 13:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 13:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:55	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-31	Lab ID: 92526257007	Collected: 03/08/21 15:40	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 13:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 13:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 13:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 13:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 13:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 13:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 13:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 13:55	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 13:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:55	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 13:55	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 13:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 13:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 13:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 13:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 13:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 13:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 13:55	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/10/21 13:55	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/10/21 13:55	460-00-4	
Toluene-d8 (S)	106	%	70-130	1		03/10/21 13:55	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Sample: MW-77	Lab ID: 92526257008	Collected: 03/08/21 15:35	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 09:13	03/11/21 09:13		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 09:13	03/11/21 09:13		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 09:13	03/11/21 09:13	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 09:13	03/11/21 09:13	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	85.4	%	70.0-130	1	03/11/21 09:13	03/11/21 09:13	615-59-8FID	
2,5-Dibromotoluene (PID)	88.6	%	70.0-130	1	03/11/21 09:13	03/11/21 09:13	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	5.7	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:49	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 14:02	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 14:02	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 14:02	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 14:02	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 14:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 14:02	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:02	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:02	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:02	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 14:02	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 14:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 14:02	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 14:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 14:02	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 14:02	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 14:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 14:02	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 14:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 14:02	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 14:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 14:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 14:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 14:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:02	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-77	Lab ID: 92526257008	Collected: 03/08/21 15:35	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:02	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 14:02	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 14:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 14:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 14:02	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 14:02	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 14:02	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 14:02	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 14:02	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 14:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 14:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 14:02	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 14:02	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 14:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 14:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 14:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 14:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 14:02	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 14:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 14:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 14:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 14:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 14:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 14:02	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 14:02	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 14:02	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		03/10/21 14:02	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/10/21 14:02	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/10/21 14:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Sample: MW-78	Lab ID: 92526257009	Collected: 03/08/21 16:10	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 09:46	03/11/21 09:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 09:46	03/11/21 09:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 09:46	03/11/21 09:46	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 09:46	03/11/21 09:46	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	79.3	%	70.0-130	1	03/11/21 09:46	03/11/21 09:46	615-59-8FID	
2,5-Dibromotoluene (PID)	82.8	%	70.0-130	1	03/11/21 09:46	03/11/21 09:46	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:52	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 15:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 15:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 15:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 15:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 15:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 15:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 15:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 15:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 15:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 15:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 15:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 15:13	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 15:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 15:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 15:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 15:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 15:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 15:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 15:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 15:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 15:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 15:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 15:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 15:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 15:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 15:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 15:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 15:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 15:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 15:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 15:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 15:13	594-20-7	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: MW-78	Lab ID: 92526257009	Collected: 03/08/21 16:10	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 15:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 15:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 15:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 15:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 15:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 15:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 15:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 15:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 15:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 15:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 15:13	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 15:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 15:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 15:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 15:13	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 15:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 15:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 15:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 15:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 15:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 15:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 15:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 15:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 15:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 15:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 15:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 15:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 15:13	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/10/21 15:13	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1		03/10/21 15:13	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/10/21 15:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: DUP-1-20210308	Lab ID: 92526257010	Collected: 03/08/21 00:00	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 10:19	03/11/21 10:19		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 10:19	03/11/21 10:19		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 10:19	03/11/21 10:19	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 10:19	03/11/21 10:19	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	80.6	%	70.0-130	1	03/11/21 10:19	03/11/21 10:19	615-59-8FID	
2,5-Dibromotoluene (PID)	84.7	%	70.0-130	1	03/11/21 10:19	03/11/21 10:19	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:55	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 15:49	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 15:49	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 15:49	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 15:49	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 15:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 15:49	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 15:49	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 15:49	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 15:49	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 15:49	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 15:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 15:49	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 15:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 15:49	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 15:49	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 15:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 15:49	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 15:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 15:49	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 15:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 15:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 15:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 15:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 15:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 15:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 15:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 15:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 15:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 15:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 15:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 15:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 15:49	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: DUP-1-20210308	Lab ID: 92526257010	Collected: 03/08/21 00:00	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 15:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 15:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 15:49	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 15:49	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 15:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 15:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 15:49	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 15:49	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 15:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 15:49	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 15:49	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 15:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 15:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 15:49	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 15:49	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 15:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 15:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 15:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 15:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 15:49	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 15:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 15:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 15:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 15:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 15:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 15:49	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 15:49	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 15:49	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		03/10/21 15:49	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/10/21 15:49	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		03/10/21 15:49	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: Trip Blank	Lab ID: 92526257011	Collected: 03/08/21 00:00	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/10/21 11:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 11:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 11:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 11:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 11:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 11:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 11:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 11:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 11:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 11:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 11:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 11:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 11:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 11:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 11:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 11:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 11:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 11:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 11:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 11:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 11:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 11:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 11:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 11:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 11:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 11:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 11:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 11:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 11:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 11:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 11:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 11:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 11:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 11:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 11:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 11:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 11:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 11:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 11:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 11:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 11:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 11:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 11:31	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 11:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 11:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 11:31	79-34-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Sample: Trip Blank		Lab ID: 92526257011	Collected: 03/08/21 00:00	Received: 03/08/21 17:48	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 11:31	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 11:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 11:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 11:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 11:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 11:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 11:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 11:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 11:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 11:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 11:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 11:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 11:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 11:31	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/10/21 11:31	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		03/10/21 11:31	460-00-4	
Toluene-d8 (S)	107	%	70-130	1		03/10/21 11:31	2037-26-5	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

QC Batch:	1632741	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92526257001, 92526257002, 92526257003, 92526257004, 92526257005, 92526257006, 92526257007, 92526257008, 92526257009, 92526257010

METHOD BLANK:	R3630495-3	Matrix:	Water
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Associated Lab Samples: 92526257001, 92526257002, 92526257003, 92526257004, 92526257005, 92526257006, 92526257007, 92526257008, 92526257009, 92526257010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/10/21 21:15	
Aliphatic (C09-C12)	ug/L	ND	100	03/10/21 21:15	
Aromatic (C09-C10), Unadjusted	ug/L	ND	100	03/10/21 21:15	
Total VPH	ug/L	ND	100	03/10/21 21:15	
2,5-Dibromotoluene (FID)	%	87.8	70.0-130	03/10/21 21:15	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/10/21 21:15	

Parameter	Units	R3630495-1		R3630495-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
Aliphatic (C05-C08)	ug/L	1200	958	994	79.8	82.8	70.0-130	3.69	25
Aliphatic (C09-C12)	ug/L	1400	1360	1210	97.1	86.4	70.0-130	11.7	25
Aromatic (C09-C10), Unadjusted	ug/L	200	221	193	111	96.5	70.0-130	13.5	25
Total VPH	ug/L	2800	2540	2400	90.7	85.7	70.0-130	5.67	25
2,5-Dibromotoluene (FID)	%				99.4	92.2	70.0-130		
2,5-Dibromotoluene (PID)	%				101	93.0	70.0-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

QC Batch: 1634414	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526257003

METHOD BLANK: R3630749-3 Matrix: Water  
Associated Lab Samples: 92526257003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/14/21 15:07	
Total VPH	ug/L	ND	100	03/14/21 15:07	
2,5-Dibromotoluene (FID)	%	92.2	70.0-130	03/14/21 15:07	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	03/14/21 15:07	

Parameter	Units	R3630749-1		R3630749-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1250	1220	104	102	70.0-130	2.43	25
Total VPH	ug/L	2800	3060	3020	109	108	70.0-130	1.32	25
2,5-Dibromotoluene (FID)	%				91.7	93.1	70.0-130		
2,5-Dibromotoluene (PID)	%				89.2	90.6	70.0-130		

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

QC Batch:	605365	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92526257001, 92526257002, 92526257003, 92526257004, 92526257005, 92526257006, 92526257007, 92526257008, 92526257009, 92526257010

METHOD BLANK: 3189443 Matrix: Water

Associated Lab Samples: 92526257001, 92526257002, 92526257003, 92526257004, 92526257005, 92526257006, 92526257007, 92526257008, 92526257009, 92526257010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/12/21 16:57	

LABORATORY CONTROL SAMPLE: 3189444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	469	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189445 3189446

Parameter	92526257001 Units	92526257001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	482	477	96	95	75-125	1	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

QC Batch: 605328 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92526257005, 92526257006, 92526257007, 92526257011

METHOD BLANK: 3189224 Matrix: Water  
Associated Lab Samples: 92526257005, 92526257006, 92526257007, 92526257011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1-Dichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1-Dichloroethene	ug/L	ND	0.50	03/10/21 10:37	
1,1-Dichloropropene	ug/L	ND	0.50	03/10/21 10:37	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/10/21 10:37	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/10/21 10:37	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/10/21 10:37	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/10/21 10:37	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dichloropropane	ug/L	ND	0.50	03/10/21 10:37	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/10/21 10:37	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
1,3-Dichloropropane	ug/L	ND	0.50	03/10/21 10:37	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
2,2-Dichloropropane	ug/L	ND	0.50	03/10/21 10:37	
2-Chlorotoluene	ug/L	ND	0.50	03/10/21 10:37	
4-Chlorotoluene	ug/L	ND	0.50	03/10/21 10:37	
Benzene	ug/L	ND	0.50	03/10/21 10:37	
Bromobenzene	ug/L	ND	0.50	03/10/21 10:37	
Bromochloromethane	ug/L	ND	0.50	03/10/21 10:37	
Bromodichloromethane	ug/L	ND	0.50	03/10/21 10:37	
Bromoform	ug/L	ND	0.50	03/10/21 10:37	
Bromomethane	ug/L	ND	5.0	03/10/21 10:37	
Carbon tetrachloride	ug/L	ND	0.50	03/10/21 10:37	
Chlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
Chloroethane	ug/L	ND	1.0	03/10/21 10:37	
Chloroform	ug/L	ND	0.50	03/10/21 10:37	
Chloromethane	ug/L	ND	1.0	03/10/21 10:37	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 10:37	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 10:37	
Dibromochloromethane	ug/L	ND	0.50	03/10/21 10:37	
Dibromomethane	ug/L	ND	0.50	03/10/21 10:37	
Dichlorodifluoromethane	ug/L	ND	0.50	03/10/21 10:37	
Diisopropyl ether	ug/L	ND	0.50	03/10/21 10:37	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

METHOD BLANK: 3189224

Matrix: Water

Associated Lab Samples: 92526257005, 92526257006, 92526257007, 92526257011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/10/21 10:37	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/10/21 10:37	
m&p-Xylene	ug/L	ND	1.0	03/10/21 10:37	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/10/21 10:37	
Methylene Chloride	ug/L	ND	2.0	03/10/21 10:37	
n-Butylbenzene	ug/L	ND	0.50	03/10/21 10:37	
n-Propylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Naphthalene	ug/L	ND	2.0	03/10/21 10:37	
o-Xylene	ug/L	ND	0.50	03/10/21 10:37	
sec-Butylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Styrene	ug/L	ND	0.50	03/10/21 10:37	
tert-Butylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Tetrachloroethene	ug/L	ND	0.50	03/10/21 10:37	
Toluene	ug/L	ND	0.50	03/10/21 10:37	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 10:37	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 10:37	
Trichloroethene	ug/L	ND	0.50	03/10/21 10:37	
Trichlorofluoromethane	ug/L	ND	1.0	03/10/21 10:37	
Vinyl chloride	ug/L	ND	1.0	03/10/21 10:37	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/10/21 10:37	
4-Bromofluorobenzene (S)	%	99	70-130	03/10/21 10:37	
Toluene-d8 (S)	%	90	70-130	03/10/21 10:37	

LABORATORY CONTROL SAMPLE: 3189225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.6	113	60-140	
1,1,1-Trichloroethane	ug/L	50	51.8	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.0	104	60-140	
1,1,2-Trichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethene	ug/L	50	58.3	117	60-140	
1,1-Dichloropropene	ug/L	50	49.8	100	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.4	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.8	104	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.3	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	60-140	
1,2-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,2-Dichloroethane	ug/L	50	50.0	100	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.5	97	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

LABORATORY CONTROL SAMPLE: 3189225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.8	104	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	50.4	101	60-140	
2,2-Dichloropropane	ug/L	50	53.0	106	60-140	
2-Chlorotoluene	ug/L	50	50.6	101	60-140	
4-Chlorotoluene	ug/L	50	49.2	98	60-140	
Benzene	ug/L	50	46.4	93	60-140	
Bromobenzene	ug/L	50	51.5	103	60-140	
Bromochloromethane	ug/L	50	49.5	99	60-140	
Bromodichloromethane	ug/L	50	48.5	97	60-140	
Bromoform	ug/L	50	50.6	101	60-140	
Bromomethane	ug/L	50	66.5	133	60-140	
Carbon tetrachloride	ug/L	50	53.2	106	60-140	
Chlorobenzene	ug/L	50	53.7	107	60-140	
Chloroethane	ug/L	50	49.8	100	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	44.6	89	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	60-140	
Dibromochloromethane	ug/L	50	58.4	117	60-140	
Dibromomethane	ug/L	50	52.7	105	60-140	
Dichlorodifluoromethane	ug/L	50	49.3	99	60-140	
Diisopropyl ether	ug/L	50	43.7	87	60-140	
Ethylbenzene	ug/L	50	52.1	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.6	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.7	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	49.2	98	60-140	
Methylene Chloride	ug/L	50	45.8	92	60-140	
n-Butylbenzene	ug/L	50	48.7	97	60-140	
n-Propylbenzene	ug/L	50	48.1	96	60-140	
Naphthalene	ug/L	50	51.2	102	60-140	
o-Xylene	ug/L	50	53.7	107	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	54.6	109	60-140	
tert-Butylbenzene	ug/L	50	43.0	86	60-140	
Tetrachloroethene	ug/L	50	54.5	109	60-140	
Toluene	ug/L	50	46.4	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.6	101	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Trichloroethene	ug/L	50	54.8	110	60-140	
Trichlorofluoromethane	ug/L	50	51.4	103	60-140	
Vinyl chloride	ug/L	50	47.1	94	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			88	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Parameter	92525533002		MS	MSD	3189226		3189227		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.2	22.6	101	113	60-140	11			
1,1,1-Trichloroethane	ug/L	ND	20	20	19.5	22.8	98	114	60-140	15			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.0	19.1	90	95	60-140	6			
1,1,2-Trichloroethane	ug/L	ND	20	20	16.9	20.8	84	104	60-140	21			
1,1-Dichloroethane	ug/L	ND	20	20	19.4	23.3	97	116	60-140	18			
1,1-Dichloroethene	ug/L	ND	20	20	20.9	25.5	105	127	60-140	20			
1,1-Dichloropropene	ug/L	ND	20	20	19.5	21.8	97	109	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.2	18.9	86	94	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	20	20	18.4	18.9	92	95	60-140	3			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.1	19.9	91	99	60-140	9			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	18.9	20.0	94	100	60-140	6			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.7	21.7	103	109	60-140	5			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.2	20.3	96	102	60-140	6			
1,2-Dichlorobenzene	ug/L	ND	20	20	17.9	19.8	89	99	60-140	10			
1,2-Dichloroethane	ug/L	ND	20	20	17.6	20.4	88	102	60-140	15			
1,2-Dichloropropane	ug/L	ND	20	20	20.2	21.4	101	107	60-140	6			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	17.9	19.8	90	99	60-140	10			
1,3-Dichlorobenzene	ug/L	ND	20	20	18.3	20.1	91	100	60-140	9			
1,3-Dichloropropane	ug/L	ND	20	20	18.5	20.7	93	104	60-140	11			
1,4-Dichlorobenzene	ug/L	ND	20	20	17.7	19.9	88	99	60-140	12			
2,2-Dichloropropane	ug/L	ND	20	20	20.5	24.2	102	121	60-140	17			
2-Chlorotoluene	ug/L	ND	20	20	18.7	20.3	93	102	60-140	8			
4-Chlorotoluene	ug/L	ND	20	20	17.6	20.0	88	100	60-140	13			
Benzene	ug/L	ND	20	20	19.4	20.7	97	103	60-140	6			
Bromobenzene	ug/L	ND	20	20	19.7	21.2	99	106	60-140	7			
Bromochloromethane	ug/L	ND	20	20	18.9	22.0	95	110	60-140	15			
Bromodichloromethane	ug/L	ND	20	20	18.3	20.2	91	101	60-140	10			
Bromoform	ug/L	ND	20	20	17.6	19.3	88	97	60-140	9			
Bromomethane	ug/L	ND	20	20	26.0	31.2	130	156	60-140	18 M1			
Carbon tetrachloride	ug/L	ND	20	20	21.1	24.8	105	124	60-140	16			
Chlorobenzene	ug/L	ND	20	20	19.4	21.4	97	107	60-140	10			
Chloroethane	ug/L	ND	20	20	19.4	22.7	97	114	60-140	16			
Chloroform	ug/L	ND	20	20	19.4	22.1	97	111	60-140	13			
Chloromethane	ug/L	ND	20	20	15.6	19.5	78	98	60-140	22			
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.6	21.8	93	109	60-140	16			
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.7	21.3	98	107	60-140	8			
Dibromochloromethane	ug/L	ND	20	20	19.6	22.3	98	111	60-140	13			
Dibromomethane	ug/L	ND	20	20	19.8	22.7	99	113	60-140	14			
Dichlorodifluoromethane	ug/L	ND	20	20	18.8	22.4	94	112	60-140	18			
Diisopropyl ether	ug/L	ND	20	20	17.3	20.6	87	103	60-140	17			
Ethylbenzene	ug/L	ND	20	20	19.3	21.4	96	107	60-140	10			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	20.2	108	101	60-140	6			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.4	21.2	97	106	60-140	9			
m&p-Xylene	ug/L	ND	40	40	39.9	43.6	100	109	60-140	9			
Methyl-tert-butyl ether	ug/L	ND	20	20	18.2	22.1	91	110	60-140	19			
Methylene Chloride	ug/L	ND	20	20	17.7	21.1	88	105	60-140	18			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Parameter	92525533002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	17.7	19.7	88	99	60-140	11				
n-Propylbenzene	ug/L	ND	20	20	18.7	19.8	94	99	60-140	6				
Naphthalene	ug/L	ND	20	20	18.7	19.0	94	95	60-140	1				
o-Xylene	ug/L	ND	20	20	18.8	21.9	94	109	60-140	15				
sec-Butylbenzene	ug/L	ND	20	20	18.5	19.6	93	98	60-140	6				
Styrene	ug/L	ND	20	20	18.7	20.4	94	102	60-140	9				
tert-Butylbenzene	ug/L	ND	20	20	15.9	17.8	80	89	60-140	11				
Tetrachloroethene	ug/L	ND	20	20	20.3	21.6	101	108	60-140	6				
Toluene	ug/L	ND	20	20	18.6	19.9	93	100	60-140	7				
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.4	23.3	97	116	60-140	18				
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.4	21.5	92	108	60-140	16				
Trichloroethene	ug/L	ND	20	20	20.3	22.2	102	111	60-140	9				
Trichlorofluoromethane	ug/L	ND	20	20	20.5	24.2	103	121	60-140	16				
Vinyl chloride	ug/L	ND	20	20	17.9	21.6	89	108	60-140	19				
1,2-Dichloroethane-d4 (S)	%						93	96	70-130					
4-Bromofluorobenzene (S)	%						98	97	70-130					
Toluene-d8 (S)	%						91	95	70-130					

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

QC Batch: 605329 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526257001, 92526257002, 92526257004, 92526257008, 92526257009, 92526257010

METHOD BLANK: 3189243 Matrix: Water

Associated Lab Samples: 92526257001, 92526257002, 92526257004, 92526257008, 92526257009, 92526257010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1-Dichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1-Dichloroethene	ug/L	ND	0.50	03/10/21 11:39	
1,1-Dichloropropene	ug/L	ND	0.50	03/10/21 11:39	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/10/21 11:39	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/10/21 11:39	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/10/21 11:39	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/10/21 11:39	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dichloropropane	ug/L	ND	0.50	03/10/21 11:39	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/10/21 11:39	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
1,3-Dichloropropane	ug/L	ND	0.50	03/10/21 11:39	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
2,2-Dichloropropane	ug/L	ND	0.50	03/10/21 11:39	
2-Chlorotoluene	ug/L	ND	0.50	03/10/21 11:39	
4-Chlorotoluene	ug/L	ND	0.50	03/10/21 11:39	
Benzene	ug/L	ND	0.50	03/10/21 11:39	
Bromobenzene	ug/L	ND	0.50	03/10/21 11:39	
Bromochloromethane	ug/L	ND	0.50	03/10/21 11:39	
Bromodichloromethane	ug/L	ND	0.50	03/10/21 11:39	
Bromoform	ug/L	ND	0.50	03/10/21 11:39	
Bromomethane	ug/L	ND	5.0	03/10/21 11:39	
Carbon tetrachloride	ug/L	ND	0.50	03/10/21 11:39	
Chlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
Chloroethane	ug/L	ND	1.0	03/10/21 11:39	
Chloroform	ug/L	ND	0.50	03/10/21 11:39	
Chloromethane	ug/L	ND	1.0	03/10/21 11:39	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 11:39	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 11:39	
Dibromochloromethane	ug/L	ND	0.50	03/10/21 11:39	
Dibromomethane	ug/L	ND	0.50	03/10/21 11:39	
Dichlorodifluoromethane	ug/L	ND	0.50	03/10/21 11:39	
Diisopropyl ether	ug/L	ND	0.50	03/10/21 11:39	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

METHOD BLANK: 3189243

Matrix: Water

Associated Lab Samples: 92526257001, 92526257002, 92526257004, 92526257008, 92526257009, 92526257010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/10/21 11:39	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/10/21 11:39	
m&p-Xylene	ug/L	ND	1.0	03/10/21 11:39	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/10/21 11:39	
Methylene Chloride	ug/L	ND	2.0	03/10/21 11:39	
n-Butylbenzene	ug/L	ND	0.50	03/10/21 11:39	
n-Propylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Naphthalene	ug/L	ND	2.0	03/10/21 11:39	
o-Xylene	ug/L	ND	0.50	03/10/21 11:39	
sec-Butylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Styrene	ug/L	ND	0.50	03/10/21 11:39	
tert-Butylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Tetrachloroethene	ug/L	ND	0.50	03/10/21 11:39	
Toluene	ug/L	ND	0.50	03/10/21 11:39	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 11:39	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 11:39	
Trichloroethene	ug/L	ND	0.50	03/10/21 11:39	
Trichlorofluoromethane	ug/L	ND	1.0	03/10/21 11:39	
Vinyl chloride	ug/L	ND	1.0	03/10/21 11:39	
1,2-Dichloroethane-d4 (S)	%	103	70-130	03/10/21 11:39	
4-Bromofluorobenzene (S)	%	103	70-130	03/10/21 11:39	
Toluene-d8 (S)	%	102	70-130	03/10/21 11:39	

LABORATORY CONTROL SAMPLE: 3189244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.0	108	60-140	
1,1,1-Trichloroethane	ug/L	50	56.5	113	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	60-140	
1,1,2-Trichloroethane	ug/L	50	55.9	112	60-140	
1,1-Dichloroethane	ug/L	50	54.8	110	60-140	
1,1-Dichloroethene	ug/L	50	58.2	116	60-140	
1,1-Dichloropropene	ug/L	50	58.0	116	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,3-Trichloropropane	ug/L	50	50.5	101	60-140	
1,2,4-Trichlorobenzene	ug/L	50	54.4	109	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	54.1	108	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.4	109	60-140	
1,2-Dichlorobenzene	ug/L	50	50.6	101	60-140	
1,2-Dichloroethane	ug/L	50	56.0	112	60-140	
1,2-Dichloropropane	ug/L	50	52.9	106	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.2	102	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

LABORATORY CONTROL SAMPLE: 3189244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.9	102	60-140	
1,3-Dichloropropane	ug/L	50	50.6	101	60-140	
1,4-Dichlorobenzene	ug/L	50	50.2	100	60-140	
2,2-Dichloropropane	ug/L	50	58.9	118	60-140	
2-Chlorotoluene	ug/L	50	50.5	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	53.1	106	60-140	
Bromobenzene	ug/L	50	48.8	98	60-140	
Bromochloromethane	ug/L	50	58.4	117	60-140	
Bromodichloromethane	ug/L	50	55.7	111	60-140	
Bromoform	ug/L	50	46.2	92	60-140	
Bromomethane	ug/L	50	55.1	110	60-140	
Carbon tetrachloride	ug/L	50	57.3	115	60-140	
Chlorobenzene	ug/L	50	50.2	100	60-140	
Chloroethane	ug/L	50	51.1	102	60-140	
Chloroform	ug/L	50	55.5	111	60-140	
Chloromethane	ug/L	50	47.0	94	60-140	
cis-1,2-Dichloroethene	ug/L	50	53.0	106	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.8	118	60-140	
Dibromochloromethane	ug/L	50	54.7	109	60-140	
Dibromomethane	ug/L	50	56.2	112	60-140	
Dichlorodifluoromethane	ug/L	50	55.2	110	60-140	
Diisopropyl ether	ug/L	50	52.9	106	60-140	
Ethylbenzene	ug/L	50	49.5	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.7	109	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	60-140	
m&p-Xylene	ug/L	100	99.5	100	60-140	
Methyl-tert-butyl ether	ug/L	50	55.6	111	60-140	
Methylene Chloride	ug/L	50	49.6	99	60-140	
n-Butylbenzene	ug/L	50	55.7	111	60-140	
n-Propylbenzene	ug/L	50	49.8	100	60-140	
Naphthalene	ug/L	50	52.1	104	60-140	
o-Xylene	ug/L	50	48.6	97	60-140	
sec-Butylbenzene	ug/L	50	51.4	103	60-140	
Styrene	ug/L	50	49.7	99	60-140	
tert-Butylbenzene	ug/L	50	41.0	82	60-140	
Tetrachloroethene	ug/L	50	50.0	100	60-140	
Toluene	ug/L	50	52.8	106	60-140	
trans-1,2-Dichloroethene	ug/L	50	55.5	111	60-140	
trans-1,3-Dichloropropene	ug/L	50	57.2	114	60-140	
Trichloroethene	ug/L	50	54.4	109	60-140	
Trichlorofluoromethane	ug/L	50	53.2	106	60-140	
Vinyl chloride	ug/L	50	48.6	97	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

Parameter	92525961002		MS	MSD	3191570		3191571		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	406	515	81	103	60-140	24			
1,1,1-Trichloroethane	ug/L	ND	500	500	385	513	77	103	60-140	28			
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	373	449	75	90	60-140	19			
1,1,2-Trichloroethane	ug/L	ND	500	500	302	454	60	91	60-140	40	R1		
1,1-Dichloroethane	ug/L	ND	500	500	372	492	74	98	60-140	28			
1,1-Dichloroethene	ug/L	ND	500	500	420	531	84	106	60-140	23			
1,1-Dichloropropene	ug/L	ND	500	500	393	509	79	102	60-140	26			
1,2,3-Trichlorobenzene	ug/L	ND	500	500	459	447	92	89	60-140	3			
1,2,3-Trichloropropane	ug/L	ND	500	500	354	459	71	92	60-140	26			
1,2,4-Trichlorobenzene	ug/L	ND	500	500	437	463	87	93	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1100	500	500	1490	1710	79	123	60-140	14			
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	427	476	85	95	60-140	11			
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	383	480	77	96	60-140	22			
1,2-Dichlorobenzene	ug/L	ND	500	500	388	465	78	93	60-140	18			
1,2-Dichloroethane	ug/L	40.0	500	500	382	494	68	91	60-140	26			
1,2-Dichloropropane	ug/L	ND	500	500	379	487	76	97	60-140	25			
1,3,5-Trimethylbenzene	ug/L	ND	500	500	721	794	144	159	60-140	10	M1		
1,3-Dichlorobenzene	ug/L	ND	500	500	400	476	80	95	60-140	17			
1,3-Dichloropropane	ug/L	ND	500	500	368	444	74	89	60-140	19			
1,4-Dichlorobenzene	ug/L	ND	500	500	386	456	77	91	60-140	17			
2,2-Dichloropropane	ug/L	ND	500	500	397	536	79	107	60-140	30			
2-Chlorotoluene	ug/L	ND	500	500	440	490	88	98	60-140	11			
4-Chlorotoluene	ug/L	ND	500	500	385	447	77	89	60-140	15			
Benzene	ug/L	488	500	500	838	1050	70	113	60-140	23			
Bromobenzene	ug/L	ND	500	500	399	452	80	90	60-140	13			
Bromochloromethane	ug/L	ND	500	500	377	492	75	98	60-140	27			
Bromodichloromethane	ug/L	ND	500	500	348	461	70	92	60-140	28			
Bromoform	ug/L	ND	500	500	355	438	71	88	60-140	21			
Bromomethane	ug/L	ND	500	500	502	645	100	129	60-140	25			
Carbon tetrachloride	ug/L	ND	500	500	408	595	82	119	60-140	37	R1		
Chlorobenzene	ug/L	ND	500	500	393	489	79	98	60-140	22			
Chloroethane	ug/L	ND	500	500	362	496	72	99	60-140	31	R1		
Chloroform	ug/L	ND	500	500	383	471	77	94	60-140	21			
Chloromethane	ug/L	ND	500	500	321	421	64	84	60-140	27			
cis-1,2-Dichloroethene	ug/L	ND	500	500	353	452	71	90	60-140	25			
cis-1,3-Dichloropropene	ug/L	ND	500	500	361	491	72	98	60-140	31	R1		
Dibromochloromethane	ug/L	ND	500	500	380	479	76	96	60-140	23			
Dibromomethane	ug/L	ND	500	500	391	495	78	99	60-140	24			
Dichlorodifluoromethane	ug/L	ND	500	500	366	490	73	98	60-140	29			
Diisopropyl ether	ug/L	150	500	500	477	623	65	95	60-140	27			
Ethylbenzene	ug/L	695	500	500	1120	1350	85	131	60-140	19			
Hexachloro-1,3-butadiene	ug/L	ND	500	500	491	508	98	102	60-140	3			
Isopropylbenzene (Cumene)	ug/L	43.5	500	500	462	539	84	99	60-140	15			
m&p-Xylene	ug/L	3520	1000	1000	4590	5350	107	183	60-140	15	M1		
Methyl-tert-butyl ether	ug/L	ND	500	500	350	471	70	94	60-140	29			
Methylene Chloride	ug/L	ND	500	500	376	478	75	96	60-140	24			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Parameter	Units	3191570		3191571		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525961002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	500	500	429	483	86	97	60-140	12		
n-Propylbenzene	ug/L	ND	500	500	492	553	98	111	60-140	12		
Naphthalene	ug/L	551	500	500	881	968	66	83	60-140	9		
o-Xylene	ug/L	2050	500	500	2550	2870	100	164	60-140	12	M1	
sec-Butylbenzene	ug/L	ND	500	500	413	467	83	93	60-140	12		
Styrene	ug/L	ND	500	500	418	488	84	98	60-140	15		
tert-Butylbenzene	ug/L	ND	500	500	341	391	68	78	60-140	14		
Tetrachloroethene	ug/L	ND	500	500	412	514	82	103	60-140	22		
Toluene	ug/L	3810	500	500	3560	4760	-51	190	60-140	29	M1	
trans-1,2-Dichloroethene	ug/L	ND	500	500	382	519	76	104	60-140	30		
trans-1,3-Dichloropropene	ug/L	ND	500	500	351	477	70	95	60-140	31	R1	
Trichloroethene	ug/L	ND	500	500	387	503	77	101	60-140	26		
Trichlorofluoromethane	ug/L	ND	500	500	393	519	79	104	60-140	28		
Vinyl chloride	ug/L	ND	500	500	333	448	67	90	60-140	30		
1,2-Dichloroethane-d4 (S)	%							90	98	70-130		
4-Bromofluorobenzene (S)	%							101	99	70-130		
Toluene-d8 (S)	%							87	98	70-130		

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

QC Batch: 605982

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526257003

METHOD BLANK: 3192559

Matrix: Water

Associated Lab Samples: 92526257003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
Benzene	ug/L	ND	0.50	03/11/21 23:07	
Bromobenzene	ug/L	ND	0.50	03/11/21 23:07	
Bromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromoform	ug/L	ND	0.50	03/11/21 23:07	
Bromomethane	ug/L	ND	5.0	03/11/21 23:07	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 23:07	
Chlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
Chloroethane	ug/L	ND	1.0	03/11/21 23:07	
Chloroform	ug/L	ND	0.50	03/11/21 23:07	
Chloromethane	ug/L	ND	1.0	03/11/21 23:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Dibromomethane	ug/L	ND	0.50	03/11/21 23:07	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 23:07	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 23:07	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

METHOD BLANK: 3192559

Matrix: Water

Associated Lab Samples: 92526257003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 23:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 23:07	
m&p-Xylene	ug/L	ND	1.0	03/11/21 23:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 23:07	
Methylene Chloride	ug/L	ND	2.0	03/11/21 23:07	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Naphthalene	ug/L	ND	2.0	03/11/21 23:07	
o-Xylene	ug/L	ND	0.50	03/11/21 23:07	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Styrene	ug/L	ND	0.50	03/11/21 23:07	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 23:07	
Toluene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Trichloroethene	ug/L	ND	0.50	03/11/21 23:07	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 23:07	
Vinyl chloride	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/11/21 23:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/11/21 23:07	
Toluene-d8 (S)	%	100	70-130	03/11/21 23:07	

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	60-140	
1,1,1-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,2-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	46.5	93	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	46.6	93	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.9	88	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane	ug/L	50	46.7	93	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.3	93	60-140	
1,3-Dichloropropane	ug/L	50	48.1	96	60-140	
1,4-Dichlorobenzene	ug/L	50	44.5	89	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	47.5	95	60-140	
4-Chlorotoluene	ug/L	50	44.3	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	49.5	99	60-140	
Bromochloromethane	ug/L	50	51.3	103	60-140	
Bromodichloromethane	ug/L	50	46.9	94	60-140	
Bromoform	ug/L	50	47.7	95	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	54.3	109	60-140	
Chlorobenzene	ug/L	50	47.5	95	60-140	
Chloroethane	ug/L	50	44.7	89	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	37.6	75	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	60-140	
Dibromochloromethane	ug/L	50	53.7	107	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	45.8	92	60-140	
Ethylbenzene	ug/L	50	45.5	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	60-140	
m&p-Xylene	ug/L	100	94.1	94	60-140	
Methyl-tert-butyl ether	ug/L	50	49.0	98	60-140	
Methylene Chloride	ug/L	50	45.2	90	60-140	
n-Butylbenzene	ug/L	50	42.1	84	60-140	
n-Propylbenzene	ug/L	50	44.4	89	60-140	
Naphthalene	ug/L	50	46.8	94	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	42.4	85	60-140	
Styrene	ug/L	50	48.8	98	60-140	
tert-Butylbenzene	ug/L	50	38.0	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	48.6	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	60-140	
Trichloroethene	ug/L	50	49.8	100	60-140	
Trichlorofluoromethane	ug/L	50	43.6	87	60-140	
Vinyl chloride	ug/L	50	40.1	80	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			106	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Parameter	92526257003		MS	MSD	3192561		3192562		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	441	426	110	106	60-140	3			
1,1,1-Trichloroethane	ug/L	ND	400	400	439	437	110	109	60-140	0			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	420	400	105	100	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	400	400	427	400	107	100	60-140	6			
1,1-Dichloroethane	ug/L	ND	400	400	421	425	105	106	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	481	456	120	114	60-140	5			
1,1-Dichloropropene	ug/L	ND	400	400	416	421	104	105	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	327	356	82	89	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	400	400	394	378	99	95	60-140	4			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	346	361	86	90	60-140	4			
1,2,4-Trimethylbenzene	ug/L	148	400	400	537	531	97	96	60-140	1			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	424	409	106	102	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	449	416	112	104	60-140	8			
1,2-Dichlorobenzene	ug/L	ND	400	400	391	392	98	98	60-140	0			
1,2-Dichloroethane	ug/L	ND	400	400	402	411	101	103	60-140	2			
1,2-Dichloropropane	ug/L	ND	400	400	469	427	117	107	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	432	413	108	103	60-140	4			
1,3-Dichlorobenzene	ug/L	ND	400	400	410	401	103	100	60-140	2			
1,3-Dichloropropane	ug/L	ND	400	400	417	425	104	106	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	400	400	383	380	96	95	60-140	1			
2,2-Dichloropropane	ug/L	ND	400	400	355	358	89	89	60-140	1			
2-Chlorotoluene	ug/L	ND	400	400	411	417	103	104	60-140	1			
4-Chlorotoluene	ug/L	ND	400	400	399	382	100	96	60-140	4			
Benzene	ug/L	2140	400	400	2580	2600	111	114	60-140	1			
Bromobenzene	ug/L	ND	400	400	435	417	109	104	60-140	4			
Bromochloromethane	ug/L	ND	400	400	436	412	109	103	60-140	6			
Bromodichloromethane	ug/L	ND	400	400	419	405	105	101	60-140	4			
Bromoform	ug/L	ND	400	400	381	362	95	91	60-140	5			
Bromomethane	ug/L	ND	400	400	466	515	117	129	60-140	10			
Carbon tetrachloride	ug/L	ND	400	400	449	434	112	108	60-140	4			
Chlorobenzene	ug/L	ND	400	400	441	427	110	107	60-140	3			
Chloroethane	ug/L	ND	400	400	405	390	101	98	60-140	4			
Chloroform	ug/L	ND	400	400	438	424	109	106	60-140	3			
Chloromethane	ug/L	ND	400	400	366	367	92	92	60-140	0			
cis-1,2-Dichloroethene	ug/L	ND	400	400	406	409	101	102	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	433	421	108	105	60-140	3			
Dibromochloromethane	ug/L	ND	400	400	442	426	110	106	60-140	4			
Dibromomethane	ug/L	ND	400	400	442	444	110	111	60-140	1			
Dichlorodifluoromethane	ug/L	ND	400	400	404	390	101	97	60-140	4			
Diisopropyl ether	ug/L	227	400	400	627	627	100	100	60-140	0			
Ethylbenzene	ug/L	151	400	400	579	569	107	105	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	384	395	96	99	60-140	3			
Isopropylbenzene (Cumene)	ug/L	ND	400	400	429	410	107	103	60-140	5			
m&p-Xylene	ug/L	838	800	800	1750	1730	115	112	60-140	1			
Methyl-tert-butyl ether	ug/L	65.7	400	400	477	466	103	100	60-140	2			
Methylene Chloride	ug/L	ND	400	400	414	407	98	96	60-140	2			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Parameter	92526257003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	369	356	92	89	60-140	4				
n-Propylbenzene	ug/L	ND	400	400	413	396	103	99	60-140	4				
Naphthalene	ug/L	155	400	400	394	411	60	64	60-140	4				
o-Xylene	ug/L	465	400	400	915	910	113	111	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	408	389	102	97	60-140	5				
Styrene	ug/L	ND	400	400	424	411	106	103	60-140	3				
tert-Butylbenzene	ug/L	ND	400	400	367	349	92	87	60-140	5				
Tetrachloroethene	ug/L	ND	400	400	421	414	105	104	60-140	2				
Toluene	ug/L	2440	400	400	2870	2880	109	109	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	400	400	424	418	106	104	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	400	400	417	413	104	103	60-140	1				
Trichloroethene	ug/L	ND	400	400	451	427	113	107	60-140	6				
Trichlorofluoromethane	ug/L	ND	400	400	446	440	112	110	60-140	1				
Vinyl chloride	ug/L	ND	400	400	405	404	101	101	60-140	0				
1,2-Dichloroethane-d4 (S)	%						98	97	70-130					
4-Bromofluorobenzene (S)	%						99	99	70-130					
Toluene-d8 (S)	%						99	97	70-130					

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## QUALIFIERS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526257

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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.

### ANALYTE QUALIFIERS

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

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526257

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526257001	MW-16	MADEPV	1632741	MADEP VPH	1632741
92526257002	MW-17	MADEPV	1632741	MADEP VPH	1632741
92526257003	MW-19	MADEPV	1632741	MADEP VPH	1632741
92526257003	MW-19	MADEPV	1634414	MADEP VPH	1634414
92526257004	MW-21	MADEPV	1632741	MADEP VPH	1632741
92526257005	MW-23	MADEPV	1632741	MADEP VPH	1632741
92526257006	MW-28	MADEPV	1632741	MADEP VPH	1632741
92526257007	MW-31	MADEPV	1632741	MADEP VPH	1632741
92526257008	MW-77	MADEPV	1632741	MADEP VPH	1632741
92526257009	MW-78	MADEPV	1632741	MADEP VPH	1632741
92526257010	DUP-1-20210308	MADEPV	1632741	MADEP VPH	1632741
92526257001	MW-16	EPA 3010A	605365	EPA 6010D	605389
92526257002	MW-17	EPA 3010A	605365	EPA 6010D	605389
92526257003	MW-19	EPA 3010A	605365	EPA 6010D	605389
92526257004	MW-21	EPA 3010A	605365	EPA 6010D	605389
92526257005	MW-23	EPA 3010A	605365	EPA 6010D	605389
92526257006	MW-28	EPA 3010A	605365	EPA 6010D	605389
92526257007	MW-31	EPA 3010A	605365	EPA 6010D	605389
92526257008	MW-77	EPA 3010A	605365	EPA 6010D	605389
92526257009	MW-78	EPA 3010A	605365	EPA 6010D	605389
92526257010	DUP-1-20210308	EPA 3010A	605365	EPA 6010D	605389
92526257001	MW-16	SM 6200B	605329		
92526257002	MW-17	SM 6200B	605329		
92526257003	MW-19	SM 6200B	605982		
92526257004	MW-21	SM 6200B	605329		
92526257005	MW-23	SM 6200B	605328		
92526257006	MW-28	SM 6200B	605328		
92526257007	MW-31	SM 6200B	605328		
92526257008	MW-77	SM 6200B	605329		
92526257009	MW-78	SM 6200B	605329		
92526257010	DUP-1-20210308	SM 6200B	605329		
92526257011	Trip Blank	SM 6200B	605328		

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**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: AECOM

Project #: **WO# : 92526257**

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



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 3-9-21  
AMP

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 92T064 Type of Ice:  Wet  Blue  None

Cooler Temp: 4.8 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): 4.8

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 -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
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>WT</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: \_\_\_\_\_ Date: \_\_\_\_\_

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



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

Project #

**WO# : 92526257**  
 PM: NMG Due Date: 03/15/21  
 CLIENT: 92-AECOM CHA

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

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

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 Na2SO3 (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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/
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).



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A  
 Required Client Information:  
 Company: AECOM  
 Address: 6000 Fairview Road  
 Suite 200, Charlotte, NC 28226  
 Phone: (704)522-0330  
 Fax: [blank]  
 Requested Due Date: [blank]

Section B  
 Required Project Information:  
 Report To: Andrew Wresching  
 Copy To: [blank]  
 Purchase Order #: [blank]  
 Project Name: Colonial Pipeline  
 Project #:

Section C  
 Invoice Information:  
 Attention: [blank]  
 Company Name: [blank]  
 Address: [blank]  
 Pace Quote: [blank]  
 Pace Project Manager: nicole.gastrowski@paceelabs.com  
 Pace Profile #: 12518-3

Page: 1 of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Pesticide Oil Other Truss	CODE DW WT WW P SL WV AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives						Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	State / Location				
						START DATE	END DATE				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other	6200	VPH	6010 Lead
1	MW-16					3/8/21	1000		8		X	X					X	X	X	X	42.526257	NC		
2	MW-17						1420																	
3	MW-19						1325																	
4	MW-21						1110																	
5	MW-23						0940																	
6	MW-28						1150																	
7	MW-31						1540																	
8	MW-37						1535																	
9	MW-38						1610																	
10	<del>MW-39</del>																							
11	DUP-1-20210308																							
12	Trip BLANK																							

RELINQUISHED BY / AFFILIATION  
 Yvonne P. Fore/AECOM

DATE  
 3/8/21

TIME

ACCEPTED BY / AFFILIATION  
 MDC/2021-03-08-21

DATE

TIME

DATE

TIME

SAMPLE CONDITIONS  
 4.8  
 Y  
 Y  
 Y

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Erin Love  
 SIGNATURE of SAMPLER: Erin Love

DATE Signed: 3/8/21

no sample collected

March 15, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

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### Pace Analytical Services National

<p>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</p>	<p>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 Certification #: T 104704245-17-14 Texas Mold Certification #: LAB0152 USDA Soil Permit #: P330-15-00234 Utah Certification #: TN00003 Virginia Certification #: VT2006 Vermont Dept. of Health: ID# VT-2006 Virginia Certification #: 460132 Washington Certification #: C847 West Virginia Certification #: 233 Wisconsin Certification #: 998093910 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</p>
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### Pace Analytical Services Charlotte

<p>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</p>	<p>South Carolina Certification #: 99006001 Florida/NELAP Certification #: E87627 Kentucky UST Certification #: 84 Virginia/VELAP Certification #: 460221</p>
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### Pace Analytical Services Asheville

<p>2225 Riverside Drive, Asheville, NC 28804 Florida/NELAP Certification #: E87648 North Carolina Drinking Water Certification #: 37712</p>	<p>North Carolina Wastewater Certification #: 40 South Carolina Certification #: 99030001 Virginia/VELAP Certification #: 460222</p>
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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526262001	MW-64	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526262002	MW-65	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526262003	MW-65D	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526262004	MW-70	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526262005	MW-74	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526262006	MW-75	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526262007	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

Sample: MW-64	Lab ID: 92526262001	Collected: 03/08/21 10:25	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 00:59	03/11/21 00:59		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 00:59	03/11/21 00:59		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 00:59	03/11/21 00:59	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 00:59	03/11/21 00:59	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	84.0	%	70.0-130	1	03/11/21 00:59	03/11/21 00:59	615-59-8FID	
2,5-Dibromotoluene (PID)	85.1	%	70.0-130	1	03/11/21 00:59	03/11/21 00:59	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	12.8	ug/L	5.0	1	03/10/21 02:07	03/12/21 17:58	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 14:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 14:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 14:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 14:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 14:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 14:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 14:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 14:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 14:31	75-00-3	
Chloroform	1.2	ug/L	0.50	1		03/10/21 14:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 14:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 14:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 14:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 14:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 14:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 14:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 14:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 14:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 14:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 14:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:31	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: MW-64	Lab ID: 92526262001	Collected: 03/08/21 10:25	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 14:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 14:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 14:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 14:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 14:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 14:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 14:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 14:31	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 14:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 14:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 14:31	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 14:31	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 14:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 14:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 14:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 14:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 14:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 14:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 14:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 14:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 14:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 14:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 14:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 14:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 14:31	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/10/21 14:31	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/10/21 14:31	460-00-4	
Toluene-d8 (S)	93	%	70-130	1		03/10/21 14:31	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: MW-65	Lab ID: 92526262002	Collected: 03/08/21 12:29	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 01:31	03/11/21 01:31		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 01:31	03/11/21 01:31		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 01:31	03/11/21 01:31	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 01:31	03/11/21 01:31	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	87.0	%	70.0-130	1	03/11/21 01:31	03/11/21 01:31	615-59-8FID	
2,5-Dibromotoluene (PID)	87.5	%	70.0-130	1	03/11/21 01:31	03/11/21 01:31	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	7.2	ug/L	5.0	1	03/10/21 02:07	03/12/21 18:01	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 14:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 14:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 14:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 14:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 14:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 14:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 14:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 14:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 14:13	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 14:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 14:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 14:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 14:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 14:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 14:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 14:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 14:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 14:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 14:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 14:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:13	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: MW-65	Lab ID: 92526262002	Collected: 03/08/21 12:29	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 14:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 14:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 14:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 14:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 14:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 14:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 14:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 14:13	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 14:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 14:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 14:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 14:13	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 14:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 14:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 14:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 14:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 14:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 14:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 14:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 14:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 14:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 14:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 14:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 14:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 14:13	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/10/21 14:13	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		03/10/21 14:13	460-00-4	
Toluene-d8 (S)	94	%	70-130	1		03/10/21 14:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: MW-65D	Lab ID: 92526262003	Collected: 03/08/21 11:00	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 02:04	03/11/21 02:04		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 02:04	03/11/21 02:04		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 02:04	03/11/21 02:04	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 02:04	03/11/21 02:04	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	93.9	%	70.0-130	1	03/11/21 02:04	03/11/21 02:04	615-59-8FID	
2,5-Dibromotoluene (PID)	94.9	%	70.0-130	1	03/11/21 02:04	03/11/21 02:04	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	12.0	ug/L	5.0	1	03/10/21 02:07	03/12/21 18:11	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 12:50	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 12:50	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 12:50	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 12:50	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 12:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 12:50	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:50	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:50	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:50	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 12:50	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 12:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 12:50	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 12:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 12:50	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 12:50	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 12:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 12:50	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 12:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 12:50	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 12:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 12:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 12:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 12:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:50	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: MW-65D	Lab ID: 92526262003	Collected: 03/08/21 11:00	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:50	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 12:50	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 12:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 12:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 12:50	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 12:50	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 12:50	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 12:50	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 12:50	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 12:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 12:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 12:50	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 12:50	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 12:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 12:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 12:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 12:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 12:50	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 12:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 12:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 12:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 12:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 12:50	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 12:50	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 12:50	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 12:50	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/10/21 12:50	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/10/21 12:50	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/10/21 12:50	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

Sample: MW-70	Lab ID: 92526262004	Collected: 03/08/21 09:55	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 02:37	03/11/21 02:37		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 02:37	03/11/21 02:37		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 02:37	03/11/21 02:37	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 02:37	03/11/21 02:37	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	83.6	%	70.0-130	1	03/11/21 02:37	03/11/21 02:37	615-59-8FID	
2,5-Dibromotoluene (PID)	83.9	%	70.0-130	1	03/11/21 02:37	03/11/21 02:37	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>9.8</b>	ug/L	5.0	1	03/10/21 02:07	03/12/21 18:14	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 12:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 12:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 12:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 12:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 12:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 12:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 12:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 12:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 12:33	75-00-3	
Chloroform	<b>1.9</b>	ug/L	0.50	1		03/10/21 12:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 12:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 12:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 12:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 12:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 12:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 12:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 12:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 12:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 12:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 12:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:33	594-20-7	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: MW-70	Lab ID: 92526262004	Collected: 03/08/21 09:55	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 12:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 12:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 12:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 12:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 12:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 12:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 12:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 12:33	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 12:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 12:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 12:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 12:33	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 12:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 12:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 12:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 12:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 12:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 12:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 12:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 12:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 12:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 12:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 12:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 12:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 12:33	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/10/21 12:33	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/10/21 12:33	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		03/10/21 12:33	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: MW-74	Lab ID: 92526262005	Collected: 03/08/21 15:30	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 03:10	03/11/21 03:10		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 03:10	03/11/21 03:10		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 03:10	03/11/21 03:10	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 03:10	03/11/21 03:10	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	83.8	%	70.0-130	1	03/11/21 03:10	03/11/21 03:10	615-59-8FID	
2,5-Dibromotoluene (PID)	84.8	%	70.0-130	1	03/11/21 03:10	03/11/21 03:10	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 18:17	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 12:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 12:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 12:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 12:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 12:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 12:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 12:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 12:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 12:15	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 12:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 12:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 12:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 12:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 12:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 12:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 12:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 12:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 12:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 12:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 12:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:15	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: MW-74	Lab ID: 92526262005	Collected: 03/08/21 15:30	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 12:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 12:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 12:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 12:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 12:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 12:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 12:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 12:15	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 12:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 12:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 12:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 12:15	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 12:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 12:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 12:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 12:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 12:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 12:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 12:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 12:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 12:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 12:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 12:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 12:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 12:15	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/10/21 12:15	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/10/21 12:15	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/10/21 12:15	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: MW-75	Lab ID: 92526262006	Collected: 03/08/21 12:25	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/14/21 17:17	03/14/21 17:17		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/14/21 17:17	03/14/21 17:17		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/14/21 17:17	03/14/21 17:17	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/14/21 17:17	03/14/21 17:17	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	95.6	%	70.0-130	1	03/14/21 17:17	03/14/21 17:17	615-59-8FID	
2,5-Dibromotoluene (PID)	92.4	%	70.0-130	1	03/14/21 17:17	03/14/21 17:17	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	16.3	ug/L	5.0	1	03/10/21 02:07	03/12/21 18:21	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 14:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 14:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 14:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 14:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 14:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 14:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 14:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 14:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 14:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 14:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 14:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 14:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 14:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 14:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 14:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 14:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 14:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 14:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 14:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 14:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 14:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 14:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 14:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 14:37	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: MW-75	Lab ID: 92526262006	Collected: 03/08/21 12:25	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 14:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 14:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 14:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 14:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 14:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 14:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 14:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 14:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 14:37	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 14:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 14:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 14:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 14:37	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 14:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 14:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 14:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 14:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 14:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 14:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 14:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 14:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 14:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 14:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 14:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 14:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 14:37	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		03/10/21 14:37	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		03/10/21 14:37	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/10/21 14:37	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

Sample: Trip Blank	Lab ID: 92526262007	Collected: 03/08/21 00:00	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/10/21 11:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 11:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 11:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 11:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 11:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 11:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 11:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 11:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 11:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 11:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 11:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 11:13	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 11:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 11:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 11:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 11:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 11:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 11:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 11:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 11:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 11:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 11:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 11:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 11:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 11:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 11:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 11:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 11:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 11:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 11:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 11:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 11:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 11:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 11:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 11:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 11:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 11:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 11:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 11:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 11:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 11:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 11:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 11:13	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 11:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 11:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 11:13	79-34-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Sample: Trip Blank		Lab ID: 92526262007	Collected: 03/08/21 00:00	Received: 03/08/21 17:48	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 11:13	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 11:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 11:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 11:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 11:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 11:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 11:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 11:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 11:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 11:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 11:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 11:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 11:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 11:13	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/10/21 11:13	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		03/10/21 11:13	460-00-4	
Toluene-d8 (S)	90	%	70-130	1		03/10/21 11:13	2037-26-5	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

QC Batch: 1632741 Analysis Method: MADEP VPH  
QC Batch Method: MADEPV Analysis Description: MADEPV  
Laboratory: Pace National - Mt. Juliet  
Associated Lab Samples: 92526262001, 92526262002, 92526262003, 92526262004, 92526262005

METHOD BLANK: R3630495-3 Matrix: Water  
Associated Lab Samples: 92526262001, 92526262002, 92526262003, 92526262004, 92526262005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/10/21 21:15	
Aliphatic (C09-C12)	ug/L	ND	100	03/10/21 21:15	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/10/21 21:15	
Total VPH	ug/L	ND	100	03/10/21 21:15	
2,5-Dibromotoluene (FID)	%	87.8	70.0-130	03/10/21 21:15	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/10/21 21:15	

Parameter	Units	R3630495-1		R3630495-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	958	994	79.8	82.8	70.0-130	3.69	25
Aliphatic (C09-C12)	ug/L	1400	1360	1210	97.1	86.4	70.0-130	11.7	25
Aromatic (C09-C10),Unadjusted	ug/L	200	221	193	111	96.5	70.0-130	13.5	25
Total VPH	ug/L	2800	2540	2400	90.7	85.7	70.0-130	5.67	25
2,5-Dibromotoluene (FID)	%				99.4	92.2	70.0-130		
2,5-Dibromotoluene (PID)	%				101	93.0	70.0-130		

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

QC Batch: 1634414

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526262006

METHOD BLANK: R3630749-3

Matrix: Water

Associated Lab Samples: 92526262006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/14/21 15:07	
Aliphatic (C09-C12)	ug/L	ND	100	03/14/21 15:07	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/14/21 15:07	
Total VPH	ug/L	ND	100	03/14/21 15:07	
2,5-Dibromotoluene (FID)	%	92.2	70.0-130	03/14/21 15:07	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	03/14/21 15:07	

LABORATORY CONTROL SAMPLE & LCSD: R3630749-1

R3630749-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1250	1220	104	102	70.0-130	2.43	25	
Aliphatic (C09-C12)	ug/L	1400	1590	1580	114	113	70.0-130	0.631	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	221	216	111	108	70.0-130	2.29	25	
Total VPH	ug/L	2800	3060	3020	109	108	70.0-130	1.32	25	
2,5-Dibromotoluene (FID)	%				91.7	93.1	70.0-130			
2,5-Dibromotoluene (PID)	%				89.2	90.6	70.0-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

QC Batch: 605365 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92526262001, 92526262002, 92526262003, 92526262004, 92526262005, 92526262006

METHOD BLANK: 3189443 Matrix: Water  
Associated Lab Samples: 92526262001, 92526262002, 92526262003, 92526262004, 92526262005, 92526262006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/12/21 16:57	

LABORATORY CONTROL SAMPLE: 3189444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	469	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189445 3189446

Parameter	Units	92526257001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Lead	ug/L	ND	500	500	482	477	96	95	75-125	1	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

QC Batch: 605328 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92526262001, 92526262002, 92526262007

METHOD BLANK: 3189224 Matrix: Water  
Associated Lab Samples: 92526262001, 92526262002, 92526262007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1-Dichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1-Dichloroethene	ug/L	ND	0.50	03/10/21 10:37	
1,1-Dichloropropene	ug/L	ND	0.50	03/10/21 10:37	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/10/21 10:37	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/10/21 10:37	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/10/21 10:37	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/10/21 10:37	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dichloropropane	ug/L	ND	0.50	03/10/21 10:37	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/10/21 10:37	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
1,3-Dichloropropane	ug/L	ND	0.50	03/10/21 10:37	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
2,2-Dichloropropane	ug/L	ND	0.50	03/10/21 10:37	
2-Chlorotoluene	ug/L	ND	0.50	03/10/21 10:37	
4-Chlorotoluene	ug/L	ND	0.50	03/10/21 10:37	
Benzene	ug/L	ND	0.50	03/10/21 10:37	
Bromobenzene	ug/L	ND	0.50	03/10/21 10:37	
Bromochloromethane	ug/L	ND	0.50	03/10/21 10:37	
Bromodichloromethane	ug/L	ND	0.50	03/10/21 10:37	
Bromoform	ug/L	ND	0.50	03/10/21 10:37	
Bromomethane	ug/L	ND	5.0	03/10/21 10:37	
Carbon tetrachloride	ug/L	ND	0.50	03/10/21 10:37	
Chlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
Chloroethane	ug/L	ND	1.0	03/10/21 10:37	
Chloroform	ug/L	ND	0.50	03/10/21 10:37	
Chloromethane	ug/L	ND	1.0	03/10/21 10:37	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 10:37	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 10:37	
Dibromochloromethane	ug/L	ND	0.50	03/10/21 10:37	
Dibromomethane	ug/L	ND	0.50	03/10/21 10:37	
Dichlorodifluoromethane	ug/L	ND	0.50	03/10/21 10:37	
Diisopropyl ether	ug/L	ND	0.50	03/10/21 10:37	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

METHOD BLANK: 3189224 Matrix: Water  
Associated Lab Samples: 92526262001, 92526262002, 92526262007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/10/21 10:37	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/10/21 10:37	
m&p-Xylene	ug/L	ND	1.0	03/10/21 10:37	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/10/21 10:37	
Methylene Chloride	ug/L	ND	2.0	03/10/21 10:37	
n-Butylbenzene	ug/L	ND	0.50	03/10/21 10:37	
n-Propylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Naphthalene	ug/L	ND	2.0	03/10/21 10:37	
o-Xylene	ug/L	ND	0.50	03/10/21 10:37	
sec-Butylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Styrene	ug/L	ND	0.50	03/10/21 10:37	
tert-Butylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Tetrachloroethene	ug/L	ND	0.50	03/10/21 10:37	
Toluene	ug/L	ND	0.50	03/10/21 10:37	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 10:37	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 10:37	
Trichloroethene	ug/L	ND	0.50	03/10/21 10:37	
Trichlorofluoromethane	ug/L	ND	1.0	03/10/21 10:37	
Vinyl chloride	ug/L	ND	1.0	03/10/21 10:37	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/10/21 10:37	
4-Bromofluorobenzene (S)	%	99	70-130	03/10/21 10:37	
Toluene-d8 (S)	%	90	70-130	03/10/21 10:37	

LABORATORY CONTROL SAMPLE: 3189225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.6	113	60-140	
1,1,1-Trichloroethane	ug/L	50	51.8	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.0	104	60-140	
1,1,2-Trichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethene	ug/L	50	58.3	117	60-140	
1,1-Dichloropropene	ug/L	50	49.8	100	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.4	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.8	104	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.3	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	60-140	
1,2-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,2-Dichloroethane	ug/L	50	50.0	100	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.5	97	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

LABORATORY CONTROL SAMPLE: 3189225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.8	104	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	50.4	101	60-140	
2,2-Dichloropropane	ug/L	50	53.0	106	60-140	
2-Chlorotoluene	ug/L	50	50.6	101	60-140	
4-Chlorotoluene	ug/L	50	49.2	98	60-140	
Benzene	ug/L	50	46.4	93	60-140	
Bromobenzene	ug/L	50	51.5	103	60-140	
Bromochloromethane	ug/L	50	49.5	99	60-140	
Bromodichloromethane	ug/L	50	48.5	97	60-140	
Bromoform	ug/L	50	50.6	101	60-140	
Bromomethane	ug/L	50	66.5	133	60-140	
Carbon tetrachloride	ug/L	50	53.2	106	60-140	
Chlorobenzene	ug/L	50	53.7	107	60-140	
Chloroethane	ug/L	50	49.8	100	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	44.6	89	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	60-140	
Dibromochloromethane	ug/L	50	58.4	117	60-140	
Dibromomethane	ug/L	50	52.7	105	60-140	
Dichlorodifluoromethane	ug/L	50	49.3	99	60-140	
Diisopropyl ether	ug/L	50	43.7	87	60-140	
Ethylbenzene	ug/L	50	52.1	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.6	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.7	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	49.2	98	60-140	
Methylene Chloride	ug/L	50	45.8	92	60-140	
n-Butylbenzene	ug/L	50	48.7	97	60-140	
n-Propylbenzene	ug/L	50	48.1	96	60-140	
Naphthalene	ug/L	50	51.2	102	60-140	
o-Xylene	ug/L	50	53.7	107	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	54.6	109	60-140	
tert-Butylbenzene	ug/L	50	43.0	86	60-140	
Tetrachloroethene	ug/L	50	54.5	109	60-140	
Toluene	ug/L	50	46.4	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.6	101	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Trichloroethene	ug/L	50	54.8	110	60-140	
Trichlorofluoromethane	ug/L	50	51.4	103	60-140	
Vinyl chloride	ug/L	50	47.1	94	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			88	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189226 3189227											
Parameter	92525533002		MS	MSD	MS		MSD		% Rec		Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.2	22.6	101	113	60-140	11	
1,1,1-Trichloroethane	ug/L	ND	20	20	19.5	22.8	98	114	60-140	15	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.0	19.1	90	95	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.9	20.8	84	104	60-140	21	
1,1-Dichloroethane	ug/L	ND	20	20	19.4	23.3	97	116	60-140	18	
1,1-Dichloroethene	ug/L	ND	20	20	20.9	25.5	105	127	60-140	20	
1,1-Dichloropropene	ug/L	ND	20	20	19.5	21.8	97	109	60-140	11	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.2	18.9	86	94	60-140	9	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.4	18.9	92	95	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.1	19.9	91	99	60-140	9	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	18.9	20.0	94	100	60-140	6	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.7	21.7	103	109	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.2	20.3	96	102	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.9	19.8	89	99	60-140	10	
1,2-Dichloroethane	ug/L	ND	20	20	17.6	20.4	88	102	60-140	15	
1,2-Dichloropropane	ug/L	ND	20	20	20.2	21.4	101	107	60-140	6	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	17.9	19.8	90	99	60-140	10	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.3	20.1	91	100	60-140	9	
1,3-Dichloropropane	ug/L	ND	20	20	18.5	20.7	93	104	60-140	11	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.7	19.9	88	99	60-140	12	
2,2-Dichloropropane	ug/L	ND	20	20	20.5	24.2	102	121	60-140	17	
2-Chlorotoluene	ug/L	ND	20	20	18.7	20.3	93	102	60-140	8	
4-Chlorotoluene	ug/L	ND	20	20	17.6	20.0	88	100	60-140	13	
Benzene	ug/L	ND	20	20	19.4	20.7	97	103	60-140	6	
Bromobenzene	ug/L	ND	20	20	19.7	21.2	99	106	60-140	7	
Bromochloromethane	ug/L	ND	20	20	18.9	22.0	95	110	60-140	15	
Bromodichloromethane	ug/L	ND	20	20	18.3	20.2	91	101	60-140	10	
Bromoform	ug/L	ND	20	20	17.6	19.3	88	97	60-140	9	
Bromomethane	ug/L	ND	20	20	26.0	31.2	130	156	60-140	18 M1	
Carbon tetrachloride	ug/L	ND	20	20	21.1	24.8	105	124	60-140	16	
Chlorobenzene	ug/L	ND	20	20	19.4	21.4	97	107	60-140	10	
Chloroethane	ug/L	ND	20	20	19.4	22.7	97	114	60-140	16	
Chloroform	ug/L	ND	20	20	19.4	22.1	97	111	60-140	13	
Chloromethane	ug/L	ND	20	20	15.6	19.5	78	98	60-140	22	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.6	21.8	93	109	60-140	16	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.7	21.3	98	107	60-140	8	
Dibromochloromethane	ug/L	ND	20	20	19.6	22.3	98	111	60-140	13	
Dibromomethane	ug/L	ND	20	20	19.8	22.7	99	113	60-140	14	
Dichlorodifluoromethane	ug/L	ND	20	20	18.8	22.4	94	112	60-140	18	
Diisopropyl ether	ug/L	ND	20	20	17.3	20.6	87	103	60-140	17	
Ethylbenzene	ug/L	ND	20	20	19.3	21.4	96	107	60-140	10	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	20.2	108	101	60-140	6	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.4	21.2	97	106	60-140	9	
m&p-Xylene	ug/L	ND	40	40	39.9	43.6	100	109	60-140	9	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.2	22.1	91	110	60-140	19	
Methylene Chloride	ug/L	ND	20	20	17.7	21.1	88	105	60-140	18	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Parameter	92525533002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	17.7	19.7	88	99	60-140	11				
n-Propylbenzene	ug/L	ND	20	20	18.7	19.8	94	99	60-140	6				
Naphthalene	ug/L	ND	20	20	18.7	19.0	94	95	60-140	1				
o-Xylene	ug/L	ND	20	20	18.8	21.9	94	109	60-140	15				
sec-Butylbenzene	ug/L	ND	20	20	18.5	19.6	93	98	60-140	6				
Styrene	ug/L	ND	20	20	18.7	20.4	94	102	60-140	9				
tert-Butylbenzene	ug/L	ND	20	20	15.9	17.8	80	89	60-140	11				
Tetrachloroethene	ug/L	ND	20	20	20.3	21.6	101	108	60-140	6				
Toluene	ug/L	ND	20	20	18.6	19.9	93	100	60-140	7				
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.4	23.3	97	116	60-140	18				
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.4	21.5	92	108	60-140	16				
Trichloroethene	ug/L	ND	20	20	20.3	22.2	102	111	60-140	9				
Trichlorofluoromethane	ug/L	ND	20	20	20.5	24.2	103	121	60-140	16				
Vinyl chloride	ug/L	ND	20	20	17.9	21.6	89	108	60-140	19				
1,2-Dichloroethane-d4 (S)	%						93	96	70-130					
4-Bromofluorobenzene (S)	%						98	97	70-130					
Toluene-d8 (S)	%						91	95	70-130					

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

QC Batch: 605329

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526262003, 92526262004, 92526262005, 92526262006

METHOD BLANK: 3189243

Matrix: Water

Associated Lab Samples: 92526262003, 92526262004, 92526262005, 92526262006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1-Dichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1-Dichloroethene	ug/L	ND	0.50	03/10/21 11:39	
1,1-Dichloropropene	ug/L	ND	0.50	03/10/21 11:39	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/10/21 11:39	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/10/21 11:39	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/10/21 11:39	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/10/21 11:39	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dichloropropane	ug/L	ND	0.50	03/10/21 11:39	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/10/21 11:39	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
1,3-Dichloropropane	ug/L	ND	0.50	03/10/21 11:39	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
2,2-Dichloropropane	ug/L	ND	0.50	03/10/21 11:39	
2-Chlorotoluene	ug/L	ND	0.50	03/10/21 11:39	
4-Chlorotoluene	ug/L	ND	0.50	03/10/21 11:39	
Benzene	ug/L	ND	0.50	03/10/21 11:39	
Bromobenzene	ug/L	ND	0.50	03/10/21 11:39	
Bromochloromethane	ug/L	ND	0.50	03/10/21 11:39	
Bromodichloromethane	ug/L	ND	0.50	03/10/21 11:39	
Bromoform	ug/L	ND	0.50	03/10/21 11:39	
Bromomethane	ug/L	ND	5.0	03/10/21 11:39	
Carbon tetrachloride	ug/L	ND	0.50	03/10/21 11:39	
Chlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
Chloroethane	ug/L	ND	1.0	03/10/21 11:39	
Chloroform	ug/L	ND	0.50	03/10/21 11:39	
Chloromethane	ug/L	ND	1.0	03/10/21 11:39	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 11:39	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 11:39	
Dibromochloromethane	ug/L	ND	0.50	03/10/21 11:39	
Dibromomethane	ug/L	ND	0.50	03/10/21 11:39	
Dichlorodifluoromethane	ug/L	ND	0.50	03/10/21 11:39	
Diisopropyl ether	ug/L	ND	0.50	03/10/21 11:39	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

METHOD BLANK: 3189243

Matrix: Water

Associated Lab Samples: 92526262003, 92526262004, 92526262005, 92526262006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/10/21 11:39	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/10/21 11:39	
m&p-Xylene	ug/L	ND	1.0	03/10/21 11:39	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/10/21 11:39	
Methylene Chloride	ug/L	ND	2.0	03/10/21 11:39	
n-Butylbenzene	ug/L	ND	0.50	03/10/21 11:39	
n-Propylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Naphthalene	ug/L	ND	2.0	03/10/21 11:39	
o-Xylene	ug/L	ND	0.50	03/10/21 11:39	
sec-Butylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Styrene	ug/L	ND	0.50	03/10/21 11:39	
tert-Butylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Tetrachloroethene	ug/L	ND	0.50	03/10/21 11:39	
Toluene	ug/L	ND	0.50	03/10/21 11:39	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 11:39	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 11:39	
Trichloroethene	ug/L	ND	0.50	03/10/21 11:39	
Trichlorofluoromethane	ug/L	ND	1.0	03/10/21 11:39	
Vinyl chloride	ug/L	ND	1.0	03/10/21 11:39	
1,2-Dichloroethane-d4 (S)	%	103	70-130	03/10/21 11:39	
4-Bromofluorobenzene (S)	%	103	70-130	03/10/21 11:39	
Toluene-d8 (S)	%	102	70-130	03/10/21 11:39	

LABORATORY CONTROL SAMPLE: 3189244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.0	108	60-140	
1,1,1-Trichloroethane	ug/L	50	56.5	113	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	60-140	
1,1,2-Trichloroethane	ug/L	50	55.9	112	60-140	
1,1-Dichloroethane	ug/L	50	54.8	110	60-140	
1,1-Dichloroethene	ug/L	50	58.2	116	60-140	
1,1-Dichloropropene	ug/L	50	58.0	116	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,3-Trichloropropane	ug/L	50	50.5	101	60-140	
1,2,4-Trichlorobenzene	ug/L	50	54.4	109	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	54.1	108	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.4	109	60-140	
1,2-Dichlorobenzene	ug/L	50	50.6	101	60-140	
1,2-Dichloroethane	ug/L	50	56.0	112	60-140	
1,2-Dichloropropane	ug/L	50	52.9	106	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.2	102	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

LABORATORY CONTROL SAMPLE: 3189244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.9	102	60-140	
1,3-Dichloropropane	ug/L	50	50.6	101	60-140	
1,4-Dichlorobenzene	ug/L	50	50.2	100	60-140	
2,2-Dichloropropane	ug/L	50	58.9	118	60-140	
2-Chlorotoluene	ug/L	50	50.5	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	53.1	106	60-140	
Bromobenzene	ug/L	50	48.8	98	60-140	
Bromochloromethane	ug/L	50	58.4	117	60-140	
Bromodichloromethane	ug/L	50	55.7	111	60-140	
Bromoform	ug/L	50	46.2	92	60-140	
Bromomethane	ug/L	50	55.1	110	60-140	
Carbon tetrachloride	ug/L	50	57.3	115	60-140	
Chlorobenzene	ug/L	50	50.2	100	60-140	
Chloroethane	ug/L	50	51.1	102	60-140	
Chloroform	ug/L	50	55.5	111	60-140	
Chloromethane	ug/L	50	47.0	94	60-140	
cis-1,2-Dichloroethene	ug/L	50	53.0	106	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.8	118	60-140	
Dibromochloromethane	ug/L	50	54.7	109	60-140	
Dibromomethane	ug/L	50	56.2	112	60-140	
Dichlorodifluoromethane	ug/L	50	55.2	110	60-140	
Diisopropyl ether	ug/L	50	52.9	106	60-140	
Ethylbenzene	ug/L	50	49.5	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.7	109	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	60-140	
m&p-Xylene	ug/L	100	99.5	100	60-140	
Methyl-tert-butyl ether	ug/L	50	55.6	111	60-140	
Methylene Chloride	ug/L	50	49.6	99	60-140	
n-Butylbenzene	ug/L	50	55.7	111	60-140	
n-Propylbenzene	ug/L	50	49.8	100	60-140	
Naphthalene	ug/L	50	52.1	104	60-140	
o-Xylene	ug/L	50	48.6	97	60-140	
sec-Butylbenzene	ug/L	50	51.4	103	60-140	
Styrene	ug/L	50	49.7	99	60-140	
tert-Butylbenzene	ug/L	50	41.0	82	60-140	
Tetrachloroethene	ug/L	50	50.0	100	60-140	
Toluene	ug/L	50	52.8	106	60-140	
trans-1,2-Dichloroethene	ug/L	50	55.5	111	60-140	
trans-1,3-Dichloropropene	ug/L	50	57.2	114	60-140	
Trichloroethene	ug/L	50	54.4	109	60-140	
Trichlorofluoromethane	ug/L	50	53.2	106	60-140	
Vinyl chloride	ug/L	50	48.6	97	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

Parameter	92525961002		MS	MSD	3191570		3191571		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	406	515	81	103	60-140	24			
1,1,1-Trichloroethane	ug/L	ND	500	500	385	513	77	103	60-140	28			
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	373	449	75	90	60-140	19			
1,1,2-Trichloroethane	ug/L	ND	500	500	302	454	60	91	60-140	40	R1		
1,1-Dichloroethane	ug/L	ND	500	500	372	492	74	98	60-140	28			
1,1-Dichloroethene	ug/L	ND	500	500	420	531	84	106	60-140	23			
1,1-Dichloropropene	ug/L	ND	500	500	393	509	79	102	60-140	26			
1,2,3-Trichlorobenzene	ug/L	ND	500	500	459	447	92	89	60-140	3			
1,2,3-Trichloropropane	ug/L	ND	500	500	354	459	71	92	60-140	26			
1,2,4-Trichlorobenzene	ug/L	ND	500	500	437	463	87	93	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1100	500	500	1490	1710	79	123	60-140	14			
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	427	476	85	95	60-140	11			
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	383	480	77	96	60-140	22			
1,2-Dichlorobenzene	ug/L	ND	500	500	388	465	78	93	60-140	18			
1,2-Dichloroethane	ug/L	40.0	500	500	382	494	68	91	60-140	26			
1,2-Dichloropropane	ug/L	ND	500	500	379	487	76	97	60-140	25			
1,3,5-Trimethylbenzene	ug/L	ND	500	500	721	794	144	159	60-140	10	M1		
1,3-Dichlorobenzene	ug/L	ND	500	500	400	476	80	95	60-140	17			
1,3-Dichloropropane	ug/L	ND	500	500	368	444	74	89	60-140	19			
1,4-Dichlorobenzene	ug/L	ND	500	500	386	456	77	91	60-140	17			
2,2-Dichloropropane	ug/L	ND	500	500	397	536	79	107	60-140	30			
2-Chlorotoluene	ug/L	ND	500	500	440	490	88	98	60-140	11			
4-Chlorotoluene	ug/L	ND	500	500	385	447	77	89	60-140	15			
Benzene	ug/L	488	500	500	838	1050	70	113	60-140	23			
Bromobenzene	ug/L	ND	500	500	399	452	80	90	60-140	13			
Bromochloromethane	ug/L	ND	500	500	377	492	75	98	60-140	27			
Bromodichloromethane	ug/L	ND	500	500	348	461	70	92	60-140	28			
Bromoform	ug/L	ND	500	500	355	438	71	88	60-140	21			
Bromomethane	ug/L	ND	500	500	502	645	100	129	60-140	25			
Carbon tetrachloride	ug/L	ND	500	500	408	595	82	119	60-140	37	R1		
Chlorobenzene	ug/L	ND	500	500	393	489	79	98	60-140	22			
Chloroethane	ug/L	ND	500	500	362	496	72	99	60-140	31	R1		
Chloroform	ug/L	ND	500	500	383	471	77	94	60-140	21			
Chloromethane	ug/L	ND	500	500	321	421	64	84	60-140	27			
cis-1,2-Dichloroethene	ug/L	ND	500	500	353	452	71	90	60-140	25			
cis-1,3-Dichloropropene	ug/L	ND	500	500	361	491	72	98	60-140	31	R1		
Dibromochloromethane	ug/L	ND	500	500	380	479	76	96	60-140	23			
Dibromomethane	ug/L	ND	500	500	391	495	78	99	60-140	24			
Dichlorodifluoromethane	ug/L	ND	500	500	366	490	73	98	60-140	29			
Diisopropyl ether	ug/L	150	500	500	477	623	65	95	60-140	27			
Ethylbenzene	ug/L	695	500	500	1120	1350	85	131	60-140	19			
Hexachloro-1,3-butadiene	ug/L	ND	500	500	491	508	98	102	60-140	3			
Isopropylbenzene (Cumene)	ug/L	43.5	500	500	462	539	84	99	60-140	15			
m&p-Xylene	ug/L	3520	1000	1000	4590	5350	107	183	60-140	15	M1		
Methyl-tert-butyl ether	ug/L	ND	500	500	350	471	70	94	60-140	29			
Methylene Chloride	ug/L	ND	500	500	376	478	75	96	60-140	24			

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: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

Parameter	Units	3191570		3191571		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525961002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	500	500	429	483	86	97	60-140	12		
n-Propylbenzene	ug/L	ND	500	500	492	553	98	111	60-140	12		
Naphthalene	ug/L	551	500	500	881	968	66	83	60-140	9		
o-Xylene	ug/L	2050	500	500	2550	2870	100	164	60-140	12	M1	
sec-Butylbenzene	ug/L	ND	500	500	413	467	83	93	60-140	12		
Styrene	ug/L	ND	500	500	418	488	84	98	60-140	15		
tert-Butylbenzene	ug/L	ND	500	500	341	391	68	78	60-140	14		
Tetrachloroethene	ug/L	ND	500	500	412	514	82	103	60-140	22		
Toluene	ug/L	3810	500	500	3560	4760	-51	190	60-140	29	M1	
trans-1,2-Dichloroethene	ug/L	ND	500	500	382	519	76	104	60-140	30		
trans-1,3-Dichloropropene	ug/L	ND	500	500	351	477	70	95	60-140	31	R1	
Trichloroethene	ug/L	ND	500	500	387	503	77	101	60-140	26		
Trichlorofluoromethane	ug/L	ND	500	500	393	519	79	104	60-140	28		
Vinyl chloride	ug/L	ND	500	500	333	448	67	90	60-140	30		
1,2-Dichloroethane-d4 (S)	%							90	70-130			
4-Bromofluorobenzene (S)	%							101	70-130			
Toluene-d8 (S)	%							87	70-130			

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526262

---

### 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.

### ANALYTE QUALIFIERS

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

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526262001	MW-64	MADEPV	1632741	MADEP VPH	1632741
92526262002	MW-65	MADEPV	1632741	MADEP VPH	1632741
92526262003	MW-65D	MADEPV	1632741	MADEP VPH	1632741
92526262004	MW-70	MADEPV	1632741	MADEP VPH	1632741
92526262005	MW-74	MADEPV	1632741	MADEP VPH	1632741
92526262006	MW-75	MADEPV	1634414	MADEP VPH	1634414
92526262001	MW-64	EPA 3010A	605365	EPA 6010D	605389
92526262002	MW-65	EPA 3010A	605365	EPA 6010D	605389
92526262003	MW-65D	EPA 3010A	605365	EPA 6010D	605389
92526262004	MW-70	EPA 3010A	605365	EPA 6010D	605389
92526262005	MW-74	EPA 3010A	605365	EPA 6010D	605389
92526262006	MW-75	EPA 3010A	605365	EPA 6010D	605389
92526262001	MW-64	SM 6200B	605328		
92526262002	MW-65	SM 6200B	605328		
92526262003	MW-65D	SM 6200B	605329		
92526262004	MW-70	SM 6200B	605329		
92526262005	MW-74	SM 6200B	605329		
92526262006	MW-75	SM 6200B	605329		
92526262007	Trip Blank	SM 6200B	605328		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM**

Address: **6000 FARMERS BLVD SUITE 200  
CROFTON, MD 21114**

Report To: **ANDREW WITKOWSKI**

Copy To: **ANDREW WITKOWSKI**

Customer Project Name/Number: \_\_\_\_\_

Phone: **410-522-0330**

Site/Facility ID #: **Colonial Pipeline**

Collected By (print): \_\_\_\_\_

Quote #: \_\_\_\_\_

Collected By (signature): \_\_\_\_\_

Turnaround Date Required: \_\_\_\_\_

Sample Disposal: \_\_\_\_\_

Disposition as appropriate: \_\_\_\_\_

Archive: \_\_\_\_\_

Hold: \_\_\_\_\_

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Composite End Date	Res Cl	# of Chns
NW-64	GW	G	3/18/21	1025	B	X
NW-65				1229		X
NW-65D				1100		X
NW-70				0955		X
NW-74				1530		X
NW-75				1225		X
Trip Blank						X

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used: Wet Blue Dry None

Packing Material Used: 6 bags

Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature) MDGP

Date/Time: 3/18/21

Relinquished by/Company: (Signature) Yunhui D. Jone / AECOM

Relinquished by/Company: (Signature) \_\_\_\_\_

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or

MO# : **92526262**

Container Prec: **92526262**

AL

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrogen peroxide, (4) formaldehyde, (5) sodium hydroxide, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other \_\_\_\_\_

Analyses: \_\_\_\_\_

Lab Profile/Line: \_\_\_\_\_

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y  N  NA

Custody Signatures Present Y  N  NA

Collector Signatures Present Y  N  NA

Bottles Intact Y  N  NA

Correct Bottles Y  N  NA

Sufficient Volume Y  N  NA

Samples Received on Ice Y  N  NA

VOA - Headspace acceptable Y  N  NA

USDA Regulated Soils Y  N  NA

Samples in Holding Time Y  N  NA

Residual Chlorine Present Y  N  NA

Cl Strips: Y  N  NA

Sample pH acceptable Y  N  NA

pH Strips: 2.58 Y  N  NA

Sulfide Present Y  N  NA

Lead Acetate Strips: Y  N  NA

LAB USE ONLY: Lab Sample # / Comments: 92526262

Lab Sample #	Comments
001	
002	
003	
004	
005	
006	
007	

SHORT HOLDS PRESENT (<72 hours): Y  N  NA

Lab Tracking #: 2618824

Samples received via: FEDEX UPS Client MA

Date/Time: 3/18/21

Received by/Company: (Signature) MDGP

Date/Time: 3/18/21

Relinquished by/Company: (Signature) \_\_\_\_\_

Lab Sample Temperature Info:

Temp Blank Received: Y  N  NA

Therm ID#: IP927064

Cooler 1 Temp Upon Receipt: 21 °C

Cooler 1 Therm Corr. Factor: ±0 °C

Cooler 1 Corrected Temp: 21 °C

Comments: \_\_\_\_\_

Trip Blank Received: Y  N  NA

HCL MeOH TSP Other

Non Conformance(s): \_\_\_\_\_ Page: \_\_\_\_\_ of: \_\_\_\_\_

March 15, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526264

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526264

---

### **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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526264001	MW-14D	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526264002	MW-62D	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526264003	EB-1-20210308	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526264004	FB-1-20210308	MADEP VPH	BMB	6	PAN
		SM 6200B	SAS	63	PASI-C
92526264005	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526264

Sample: MW-14D	Lab ID: 92526264001	Collected: 03/08/21 15:00	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/11/21 04:16	03/11/21 04:16		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/11/21 04:16	03/11/21 04:16		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/11/21 04:16	03/11/21 04:16	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/11/21 04:16	03/11/21 04:16	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	84.6	%	70.0-130	1	03/11/21 04:16	03/11/21 04:16	615-59-8FID	
2,5-Dibromotoluene (PID)	84.4	%	70.0-130	1	03/11/21 04:16	03/11/21 04:16	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	59.2	ug/L	5.0	1	03/10/21 02:07	03/12/21 18:24	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 13:08	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 13:08	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 13:08	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 13:08	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 13:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 13:08	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:08	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:08	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:08	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 13:08	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 13:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 13:08	75-00-3	
Chloroform	1.2	ug/L	0.50	1		03/10/21 13:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 13:08	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:08	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 13:08	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 13:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 13:08	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 13:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 13:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:08	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

Sample: MW-14D	Lab ID: 92526264001	Collected: 03/08/21 15:00	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:08	10061-02-6	
Diisopropyl ether	<b>0.51</b>	ug/L	0.50	1		03/10/21 13:08	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 13:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 13:08	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 13:08	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 13:08	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 13:08	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 13:08	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 13:08	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 13:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:08	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 13:08	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 13:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:08	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 13:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 13:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 13:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:08	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 13:08	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 13:08	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 13:08	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/10/21 13:08	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/10/21 13:08	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		03/10/21 13:08	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526264

Sample: MW-62D	Lab ID: 92526264002	Collected: 03/08/21 13:05	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/14/21 17:51	03/14/21 17:51		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/14/21 17:51	03/14/21 17:51		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/14/21 17:51	03/14/21 17:51	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/14/21 17:51	03/14/21 17:51	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	99.2	%	70.0-130	1	03/14/21 17:51	03/14/21 17:51	615-59-8FID	
2,5-Dibromotoluene (PID)	95.4	%	70.0-130	1	03/14/21 17:51	03/14/21 17:51	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 18:27	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 13:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 13:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 13:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 13:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 13:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 13:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 13:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 13:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 13:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 13:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 13:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 13:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 13:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 13:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 13:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 13:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 13:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 13:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 13:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 13:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 13:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 13:37	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

Sample: MW-62D	Lab ID: 92526264002	Collected: 03/08/21 13:05	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 13:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 13:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 13:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 13:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 13:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 13:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 13:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 13:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 13:37	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 13:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 13:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 13:37	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 13:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 13:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 13:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 13:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 13:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 13:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 13:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 13:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 13:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 13:37	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/10/21 13:37	17060-07-0	
4-Bromofluorobenzene (S)	91	%	70-130	1		03/10/21 13:37	460-00-4	
Toluene-d8 (S)	92	%	70-130	1		03/10/21 13:37	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

Sample: <b>EB-1-20210308</b>	Lab ID: <b>92526264003</b>	Collected: 03/08/21 14:10	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/10/21 23:53	03/10/21 23:53		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/10/21 23:53	03/10/21 23:53		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/10/21 23:53	03/10/21 23:53	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/10/21 23:53	03/10/21 23:53	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	75.9	%	70.0-130	1	03/10/21 23:53	03/10/21 23:53	615-59-8FID	
2,5-Dibromotoluene (PID)	78.7	%	70.0-130	1	03/10/21 23:53	03/10/21 23:53	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/10/21 02:07	03/12/21 18:30	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/10/21 12:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 12:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 12:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 12:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 12:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 12:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 12:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 12:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 12:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 12:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 12:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 12:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 12:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 12:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 12:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 12:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 12:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 12:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 12:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 12:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:43	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

Sample: EB-1-20210308	Lab ID: 92526264003	Collected: 03/08/21 14:10	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 12:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 12:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 12:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 12:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 12:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 12:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 12:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 12:43	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 12:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 12:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 12:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 12:43	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 12:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 12:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 12:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 12:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 12:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 12:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 12:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 12:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 12:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 12:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 12:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 12:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 12:43	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/10/21 12:43	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/10/21 12:43	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/10/21 12:43	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

**Sample: FB-1-20210308**      **Lab ID: 92526264004**      Collected: 03/08/21 16:45      Received: 03/08/21 17:48      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEP VPH      Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	03/10/21 22:35	03/10/21 22:35		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/10/21 22:35	03/10/21 22:35		
Aromatic (C09-C10), Unadjusted	ND	ug/L	100	1	03/10/21 22:35	03/10/21 22:35	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/10/21 22:35	03/10/21 22:35	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	85.7	%	70.0-130	1	03/10/21 22:35	03/10/21 22:35	615-59-8FID	
2,5-Dibromotoluene (PID)	85.7	%	70.0-130	1	03/10/21 22:35	03/10/21 22:35	615-59-8PID	

**6200B MSV**

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		03/10/21 12:25	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 12:25	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 12:25	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 12:25	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 12:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 12:25	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:25	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:25	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 12:25	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 12:25	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 12:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 12:25	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 12:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 12:25	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 12:25	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 12:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 12:25	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 12:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 12:25	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 12:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 12:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 12:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 12:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 12:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 12:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 12:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 12:25	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 12:25	108-20-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

Sample: <b>FB-1-20210308</b>	Lab ID: <b>92526264004</b>	Collected: 03/08/21 16:45	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 12:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 12:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 12:25	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 12:25	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 12:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 12:25	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 12:25	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 12:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 12:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 12:25	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 12:25	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 12:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 12:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 12:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 12:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 12:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 12:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 12:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 12:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 12:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 12:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 12:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 12:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 12:25	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/10/21 12:25	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/10/21 12:25	460-00-4	
Toluene-d8 (S)	90	%	70-130	1		03/10/21 12:25	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

Sample: Trip Blank	Lab ID: 92526264005	Collected: 03/08/21 00:00	Received: 03/08/21 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/10/21 10:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/10/21 10:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/10/21 10:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/10/21 10:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/10/21 10:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/10/21 10:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/10/21 10:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/10/21 10:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/10/21 10:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/10/21 10:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/10/21 10:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/21 10:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/10/21 10:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/10/21 10:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 10:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/10/21 10:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/10/21 10:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/10/21 10:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/10/21 10:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/10/21 10:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 10:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 10:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/10/21 10:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/10/21 10:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/10/21 10:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/10/21 10:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/10/21 10:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 10:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/10/21 10:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 10:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/10/21 10:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/10/21 10:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/10/21 10:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 10:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/10/21 10:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/10/21 10:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/10/21 10:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/10/21 10:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/10/21 10:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/10/21 10:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/10/21 10:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/10/21 10:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/10/21 10:55	103-65-1	
Styrene	ND	ug/L	0.50	1		03/10/21 10:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 10:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/10/21 10:55	79-34-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526264

Sample: Trip Blank		Lab ID: 92526264005	Collected: 03/08/21 00:00	Received: 03/08/21 17:48	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/10/21 10:55	127-18-4	
Toluene	ND	ug/L	0.50	1		03/10/21 10:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 10:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/10/21 10:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/10/21 10:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/10/21 10:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/10/21 10:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/21 10:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/10/21 10:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 10:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/10/21 10:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/10/21 10:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/10/21 10:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/10/21 10:55	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/10/21 10:55	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		03/10/21 10:55	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		03/10/21 10:55	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

QC Batch: 1632741	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526264001, 92526264003, 92526264004

METHOD BLANK: R3630495-3 Matrix: Water

Associated Lab Samples: 92526264001, 92526264003, 92526264004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/10/21 21:15	
Aliphatic (C09-C12)	ug/L	ND	100	03/10/21 21:15	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/10/21 21:15	
Total VPH	ug/L	ND	100	03/10/21 21:15	
2,5-Dibromotoluene (FID)	%	87.8	70.0-130	03/10/21 21:15	
2,5-Dibromotoluene (PID)	%	87.5	70.0-130	03/10/21 21:15	

LABORATORY CONTROL SAMPLE & LCSD: R3630495-1 R3630495-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	958	994	79.8	82.8	70.0-130	3.69	25	
Aliphatic (C09-C12)	ug/L	1400	1360	1210	97.1	86.4	70.0-130	11.7	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	221	193	111	96.5	70.0-130	13.5	25	
Total VPH	ug/L	2800	2540	2400	90.7	85.7	70.0-130	5.67	25	
2,5-Dibromotoluene (FID)	%				99.4	92.2	70.0-130			
2,5-Dibromotoluene (PID)	%				101	93.0	70.0-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

QC Batch: 1634414	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526264002

METHOD BLANK: R3630749-3 Matrix: Water

Associated Lab Samples: 92526264002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/14/21 15:07	
Aliphatic (C09-C12)	ug/L	ND	100	03/14/21 15:07	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/14/21 15:07	
Total VPH	ug/L	ND	100	03/14/21 15:07	
2,5-Dibromotoluene (FID)	%	92.2	70.0-130	03/14/21 15:07	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	03/14/21 15:07	

LABORATORY CONTROL SAMPLE & LCSD: R3630749-1 R3630749-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1250	1220	104	102	70.0-130	2.43	25	
Aliphatic (C09-C12)	ug/L	1400	1590	1580	114	113	70.0-130	0.631	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	221	216	111	108	70.0-130	2.29	25	
Total VPH	ug/L	2800	3060	3020	109	108	70.0-130	1.32	25	
2,5-Dibromotoluene (FID)	%				91.7	93.1	70.0-130			
2,5-Dibromotoluene (PID)	%				89.2	90.6	70.0-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

QC Batch: 605365	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526264001, 92526264002, 92526264003

METHOD BLANK: 3189443 Matrix: Water

Associated Lab Samples: 92526264001, 92526264002, 92526264003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/12/21 16:57	

LABORATORY CONTROL SAMPLE: 3189444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	469	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189445 3189446

Parameter	Units	92526257001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Lead	ug/L	ND	500	482	477	96	95	75-125	1				

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

QC Batch: 605328

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526264002, 92526264003, 92526264004, 92526264005

METHOD BLANK: 3189224

Matrix: Water

Associated Lab Samples: 92526264002, 92526264003, 92526264004, 92526264005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1-Dichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,1-Dichloroethene	ug/L	ND	0.50	03/10/21 10:37	
1,1-Dichloropropene	ug/L	ND	0.50	03/10/21 10:37	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/10/21 10:37	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/10/21 10:37	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/10/21 10:37	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/10/21 10:37	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dichloroethane	ug/L	ND	0.50	03/10/21 10:37	
1,2-Dichloropropane	ug/L	ND	0.50	03/10/21 10:37	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/10/21 10:37	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
1,3-Dichloropropane	ug/L	ND	0.50	03/10/21 10:37	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
2,2-Dichloropropane	ug/L	ND	0.50	03/10/21 10:37	
2-Chlorotoluene	ug/L	ND	0.50	03/10/21 10:37	
4-Chlorotoluene	ug/L	ND	0.50	03/10/21 10:37	
Benzene	ug/L	ND	0.50	03/10/21 10:37	
Bromobenzene	ug/L	ND	0.50	03/10/21 10:37	
Bromochloromethane	ug/L	ND	0.50	03/10/21 10:37	
Bromodichloromethane	ug/L	ND	0.50	03/10/21 10:37	
Bromoform	ug/L	ND	0.50	03/10/21 10:37	
Bromomethane	ug/L	ND	5.0	03/10/21 10:37	
Carbon tetrachloride	ug/L	ND	0.50	03/10/21 10:37	
Chlorobenzene	ug/L	ND	0.50	03/10/21 10:37	
Chloroethane	ug/L	ND	1.0	03/10/21 10:37	
Chloroform	ug/L	ND	0.50	03/10/21 10:37	
Chloromethane	ug/L	ND	1.0	03/10/21 10:37	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 10:37	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 10:37	
Dibromochloromethane	ug/L	ND	0.50	03/10/21 10:37	
Dibromomethane	ug/L	ND	0.50	03/10/21 10:37	
Dichlorodifluoromethane	ug/L	ND	0.50	03/10/21 10:37	
Diisopropyl ether	ug/L	ND	0.50	03/10/21 10:37	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

METHOD BLANK: 3189224

Matrix: Water

Associated Lab Samples: 92526264002, 92526264003, 92526264004, 92526264005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/10/21 10:37	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/10/21 10:37	
m&p-Xylene	ug/L	ND	1.0	03/10/21 10:37	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/10/21 10:37	
Methylene Chloride	ug/L	ND	2.0	03/10/21 10:37	
n-Butylbenzene	ug/L	ND	0.50	03/10/21 10:37	
n-Propylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Naphthalene	ug/L	ND	2.0	03/10/21 10:37	
o-Xylene	ug/L	ND	0.50	03/10/21 10:37	
sec-Butylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Styrene	ug/L	ND	0.50	03/10/21 10:37	
tert-Butylbenzene	ug/L	ND	0.50	03/10/21 10:37	
Tetrachloroethene	ug/L	ND	0.50	03/10/21 10:37	
Toluene	ug/L	ND	0.50	03/10/21 10:37	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 10:37	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 10:37	
Trichloroethene	ug/L	ND	0.50	03/10/21 10:37	
Trichlorofluoromethane	ug/L	ND	1.0	03/10/21 10:37	
Vinyl chloride	ug/L	ND	1.0	03/10/21 10:37	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/10/21 10:37	
4-Bromofluorobenzene (S)	%	99	70-130	03/10/21 10:37	
Toluene-d8 (S)	%	90	70-130	03/10/21 10:37	

LABORATORY CONTROL SAMPLE: 3189225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.6	113	60-140	
1,1,1-Trichloroethane	ug/L	50	51.8	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.0	104	60-140	
1,1,2-Trichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethene	ug/L	50	58.3	117	60-140	
1,1-Dichloropropene	ug/L	50	49.8	100	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.4	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.8	104	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.3	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	60-140	
1,2-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,2-Dichloroethane	ug/L	50	50.0	100	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.5	97	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526264

LABORATORY CONTROL SAMPLE: 3189225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.8	104	60-140	
1,3-Dichloropropane	ug/L	50	51.6	103	60-140	
1,4-Dichlorobenzene	ug/L	50	50.4	101	60-140	
2,2-Dichloropropane	ug/L	50	53.0	106	60-140	
2-Chlorotoluene	ug/L	50	50.6	101	60-140	
4-Chlorotoluene	ug/L	50	49.2	98	60-140	
Benzene	ug/L	50	46.4	93	60-140	
Bromobenzene	ug/L	50	51.5	103	60-140	
Bromochloromethane	ug/L	50	49.5	99	60-140	
Bromodichloromethane	ug/L	50	48.5	97	60-140	
Bromoform	ug/L	50	50.6	101	60-140	
Bromomethane	ug/L	50	66.5	133	60-140	
Carbon tetrachloride	ug/L	50	53.2	106	60-140	
Chlorobenzene	ug/L	50	53.7	107	60-140	
Chloroethane	ug/L	50	49.8	100	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	44.6	89	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	60-140	
Dibromochloromethane	ug/L	50	58.4	117	60-140	
Dibromomethane	ug/L	50	52.7	105	60-140	
Dichlorodifluoromethane	ug/L	50	49.3	99	60-140	
Diisopropyl ether	ug/L	50	43.7	87	60-140	
Ethylbenzene	ug/L	50	52.1	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.6	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.7	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	49.2	98	60-140	
Methylene Chloride	ug/L	50	45.8	92	60-140	
n-Butylbenzene	ug/L	50	48.7	97	60-140	
n-Propylbenzene	ug/L	50	48.1	96	60-140	
Naphthalene	ug/L	50	51.2	102	60-140	
o-Xylene	ug/L	50	53.7	107	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	54.6	109	60-140	
tert-Butylbenzene	ug/L	50	43.0	86	60-140	
Tetrachloroethene	ug/L	50	54.5	109	60-140	
Toluene	ug/L	50	46.4	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.6	101	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Trichloroethene	ug/L	50	54.8	110	60-140	
Trichlorofluoromethane	ug/L	50	51.4	103	60-140	
Vinyl chloride	ug/L	50	47.1	94	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			88	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526264

Parameter	92525533002		MS	MSD	3189226		3189227		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.2	22.6	101	113	60-140	11			
1,1,1-Trichloroethane	ug/L	ND	20	20	19.5	22.8	98	114	60-140	15			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.0	19.1	90	95	60-140	6			
1,1,2-Trichloroethane	ug/L	ND	20	20	16.9	20.8	84	104	60-140	21			
1,1-Dichloroethane	ug/L	ND	20	20	19.4	23.3	97	116	60-140	18			
1,1-Dichloroethene	ug/L	ND	20	20	20.9	25.5	105	127	60-140	20			
1,1-Dichloropropene	ug/L	ND	20	20	19.5	21.8	97	109	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.2	18.9	86	94	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	20	20	18.4	18.9	92	95	60-140	3			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.1	19.9	91	99	60-140	9			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	18.9	20.0	94	100	60-140	6			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.7	21.7	103	109	60-140	5			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.2	20.3	96	102	60-140	6			
1,2-Dichlorobenzene	ug/L	ND	20	20	17.9	19.8	89	99	60-140	10			
1,2-Dichloroethane	ug/L	ND	20	20	17.6	20.4	88	102	60-140	15			
1,2-Dichloropropane	ug/L	ND	20	20	20.2	21.4	101	107	60-140	6			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	17.9	19.8	90	99	60-140	10			
1,3-Dichlorobenzene	ug/L	ND	20	20	18.3	20.1	91	100	60-140	9			
1,3-Dichloropropane	ug/L	ND	20	20	18.5	20.7	93	104	60-140	11			
1,4-Dichlorobenzene	ug/L	ND	20	20	17.7	19.9	88	99	60-140	12			
2,2-Dichloropropane	ug/L	ND	20	20	20.5	24.2	102	121	60-140	17			
2-Chlorotoluene	ug/L	ND	20	20	18.7	20.3	93	102	60-140	8			
4-Chlorotoluene	ug/L	ND	20	20	17.6	20.0	88	100	60-140	13			
Benzene	ug/L	ND	20	20	19.4	20.7	97	103	60-140	6			
Bromobenzene	ug/L	ND	20	20	19.7	21.2	99	106	60-140	7			
Bromochloromethane	ug/L	ND	20	20	18.9	22.0	95	110	60-140	15			
Bromodichloromethane	ug/L	ND	20	20	18.3	20.2	91	101	60-140	10			
Bromoform	ug/L	ND	20	20	17.6	19.3	88	97	60-140	9			
Bromomethane	ug/L	ND	20	20	26.0	31.2	130	156	60-140	18 M1			
Carbon tetrachloride	ug/L	ND	20	20	21.1	24.8	105	124	60-140	16			
Chlorobenzene	ug/L	ND	20	20	19.4	21.4	97	107	60-140	10			
Chloroethane	ug/L	ND	20	20	19.4	22.7	97	114	60-140	16			
Chloroform	ug/L	ND	20	20	19.4	22.1	97	111	60-140	13			
Chloromethane	ug/L	ND	20	20	15.6	19.5	78	98	60-140	22			
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.6	21.8	93	109	60-140	16			
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.7	21.3	98	107	60-140	8			
Dibromochloromethane	ug/L	ND	20	20	19.6	22.3	98	111	60-140	13			
Dibromomethane	ug/L	ND	20	20	19.8	22.7	99	113	60-140	14			
Dichlorodifluoromethane	ug/L	ND	20	20	18.8	22.4	94	112	60-140	18			
Diisopropyl ether	ug/L	ND	20	20	17.3	20.6	87	103	60-140	17			
Ethylbenzene	ug/L	ND	20	20	19.3	21.4	96	107	60-140	10			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	20.2	108	101	60-140	6			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.4	21.2	97	106	60-140	9			
m&p-Xylene	ug/L	ND	40	40	39.9	43.6	100	109	60-140	9			
Methyl-tert-butyl ether	ug/L	ND	20	20	18.2	22.1	91	110	60-140	19			
Methylene Chloride	ug/L	ND	20	20	17.7	21.1	88	105	60-140	18			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

Parameter	92525533002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	17.7	19.7	88	99	60-140	11				
n-Propylbenzene	ug/L	ND	20	20	18.7	19.8	94	99	60-140	6				
Naphthalene	ug/L	ND	20	20	18.7	19.0	94	95	60-140	1				
o-Xylene	ug/L	ND	20	20	18.8	21.9	94	109	60-140	15				
sec-Butylbenzene	ug/L	ND	20	20	18.5	19.6	93	98	60-140	6				
Styrene	ug/L	ND	20	20	18.7	20.4	94	102	60-140	9				
tert-Butylbenzene	ug/L	ND	20	20	15.9	17.8	80	89	60-140	11				
Tetrachloroethene	ug/L	ND	20	20	20.3	21.6	101	108	60-140	6				
Toluene	ug/L	ND	20	20	18.6	19.9	93	100	60-140	7				
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.4	23.3	97	116	60-140	18				
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.4	21.5	92	108	60-140	16				
Trichloroethene	ug/L	ND	20	20	20.3	22.2	102	111	60-140	9				
Trichlorofluoromethane	ug/L	ND	20	20	20.5	24.2	103	121	60-140	16				
Vinyl chloride	ug/L	ND	20	20	17.9	21.6	89	108	60-140	19				
1,2-Dichloroethane-d4 (S)	%						93	96	70-130					
4-Bromofluorobenzene (S)	%						98	97	70-130					
Toluene-d8 (S)	%						91	95	70-130					

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526264

QC Batch: 605329	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526264001

METHOD BLANK: 3189243 Matrix: Water

Associated Lab Samples: 92526264001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1-Dichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,1-Dichloroethene	ug/L	ND	0.50	03/10/21 11:39	
1,1-Dichloropropene	ug/L	ND	0.50	03/10/21 11:39	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/10/21 11:39	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/10/21 11:39	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/10/21 11:39	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/10/21 11:39	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dichloroethane	ug/L	ND	0.50	03/10/21 11:39	
1,2-Dichloropropane	ug/L	ND	0.50	03/10/21 11:39	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/10/21 11:39	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
1,3-Dichloropropane	ug/L	ND	0.50	03/10/21 11:39	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
2,2-Dichloropropane	ug/L	ND	0.50	03/10/21 11:39	
2-Chlorotoluene	ug/L	ND	0.50	03/10/21 11:39	
4-Chlorotoluene	ug/L	ND	0.50	03/10/21 11:39	
Benzene	ug/L	ND	0.50	03/10/21 11:39	
Bromobenzene	ug/L	ND	0.50	03/10/21 11:39	
Bromochloromethane	ug/L	ND	0.50	03/10/21 11:39	
Bromodichloromethane	ug/L	ND	0.50	03/10/21 11:39	
Bromoform	ug/L	ND	0.50	03/10/21 11:39	
Bromomethane	ug/L	ND	5.0	03/10/21 11:39	
Carbon tetrachloride	ug/L	ND	0.50	03/10/21 11:39	
Chlorobenzene	ug/L	ND	0.50	03/10/21 11:39	
Chloroethane	ug/L	ND	1.0	03/10/21 11:39	
Chloroform	ug/L	ND	0.50	03/10/21 11:39	
Chloromethane	ug/L	ND	1.0	03/10/21 11:39	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 11:39	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 11:39	
Dibromochloromethane	ug/L	ND	0.50	03/10/21 11:39	
Dibromomethane	ug/L	ND	0.50	03/10/21 11:39	
Dichlorodifluoromethane	ug/L	ND	0.50	03/10/21 11:39	
Diisopropyl ether	ug/L	ND	0.50	03/10/21 11:39	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526264

METHOD BLANK: 3189243 Matrix: Water  
Associated Lab Samples: 92526264001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/10/21 11:39	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/10/21 11:39	
m&p-Xylene	ug/L	ND	1.0	03/10/21 11:39	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/10/21 11:39	
Methylene Chloride	ug/L	ND	2.0	03/10/21 11:39	
n-Butylbenzene	ug/L	ND	0.50	03/10/21 11:39	
n-Propylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Naphthalene	ug/L	ND	2.0	03/10/21 11:39	
o-Xylene	ug/L	ND	0.50	03/10/21 11:39	
sec-Butylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Styrene	ug/L	ND	0.50	03/10/21 11:39	
tert-Butylbenzene	ug/L	ND	0.50	03/10/21 11:39	
Tetrachloroethene	ug/L	ND	0.50	03/10/21 11:39	
Toluene	ug/L	ND	0.50	03/10/21 11:39	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/10/21 11:39	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/10/21 11:39	
Trichloroethene	ug/L	ND	0.50	03/10/21 11:39	
Trichlorofluoromethane	ug/L	ND	1.0	03/10/21 11:39	
Vinyl chloride	ug/L	ND	1.0	03/10/21 11:39	
1,2-Dichloroethane-d4 (S)	%	103	70-130	03/10/21 11:39	
4-Bromofluorobenzene (S)	%	103	70-130	03/10/21 11:39	
Toluene-d8 (S)	%	102	70-130	03/10/21 11:39	

LABORATORY CONTROL SAMPLE: 3189244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.0	108	60-140	
1,1,1-Trichloroethane	ug/L	50	56.5	113	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	60-140	
1,1,2-Trichloroethane	ug/L	50	55.9	112	60-140	
1,1-Dichloroethane	ug/L	50	54.8	110	60-140	
1,1-Dichloroethene	ug/L	50	58.2	116	60-140	
1,1-Dichloropropene	ug/L	50	58.0	116	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,3-Trichloropropane	ug/L	50	50.5	101	60-140	
1,2,4-Trichlorobenzene	ug/L	50	54.4	109	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	54.1	108	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.4	109	60-140	
1,2-Dichlorobenzene	ug/L	50	50.6	101	60-140	
1,2-Dichloroethane	ug/L	50	56.0	112	60-140	
1,2-Dichloropropane	ug/L	50	52.9	106	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.2	102	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

LABORATORY CONTROL SAMPLE: 3189244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.9	102	60-140	
1,3-Dichloropropane	ug/L	50	50.6	101	60-140	
1,4-Dichlorobenzene	ug/L	50	50.2	100	60-140	
2,2-Dichloropropane	ug/L	50	58.9	118	60-140	
2-Chlorotoluene	ug/L	50	50.5	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	53.1	106	60-140	
Bromobenzene	ug/L	50	48.8	98	60-140	
Bromochloromethane	ug/L	50	58.4	117	60-140	
Bromodichloromethane	ug/L	50	55.7	111	60-140	
Bromoform	ug/L	50	46.2	92	60-140	
Bromomethane	ug/L	50	55.1	110	60-140	
Carbon tetrachloride	ug/L	50	57.3	115	60-140	
Chlorobenzene	ug/L	50	50.2	100	60-140	
Chloroethane	ug/L	50	51.1	102	60-140	
Chloroform	ug/L	50	55.5	111	60-140	
Chloromethane	ug/L	50	47.0	94	60-140	
cis-1,2-Dichloroethene	ug/L	50	53.0	106	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.8	118	60-140	
Dibromochloromethane	ug/L	50	54.7	109	60-140	
Dibromomethane	ug/L	50	56.2	112	60-140	
Dichlorodifluoromethane	ug/L	50	55.2	110	60-140	
Diisopropyl ether	ug/L	50	52.9	106	60-140	
Ethylbenzene	ug/L	50	49.5	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.7	109	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	60-140	
m&p-Xylene	ug/L	100	99.5	100	60-140	
Methyl-tert-butyl ether	ug/L	50	55.6	111	60-140	
Methylene Chloride	ug/L	50	49.6	99	60-140	
n-Butylbenzene	ug/L	50	55.7	111	60-140	
n-Propylbenzene	ug/L	50	49.8	100	60-140	
Naphthalene	ug/L	50	52.1	104	60-140	
o-Xylene	ug/L	50	48.6	97	60-140	
sec-Butylbenzene	ug/L	50	51.4	103	60-140	
Styrene	ug/L	50	49.7	99	60-140	
tert-Butylbenzene	ug/L	50	41.0	82	60-140	
Tetrachloroethene	ug/L	50	50.0	100	60-140	
Toluene	ug/L	50	52.8	106	60-140	
trans-1,2-Dichloroethene	ug/L	50	55.5	111	60-140	
trans-1,3-Dichloropropene	ug/L	50	57.2	114	60-140	
Trichloroethene	ug/L	50	54.4	109	60-140	
Trichlorofluoromethane	ug/L	50	53.2	106	60-140	
Vinyl chloride	ug/L	50	48.6	97	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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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**QUALITY CONTROL DATA**

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

Parameter	92525961002		MS	MSD	3191570		3191571		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	406	515	81	103	60-140	24			
1,1,1-Trichloroethane	ug/L	ND	500	500	385	513	77	103	60-140	28			
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	373	449	75	90	60-140	19			
1,1,2-Trichloroethane	ug/L	ND	500	500	302	454	60	91	60-140	40	R1		
1,1-Dichloroethane	ug/L	ND	500	500	372	492	74	98	60-140	28			
1,1-Dichloroethene	ug/L	ND	500	500	420	531	84	106	60-140	23			
1,1-Dichloropropene	ug/L	ND	500	500	393	509	79	102	60-140	26			
1,2,3-Trichlorobenzene	ug/L	ND	500	500	459	447	92	89	60-140	3			
1,2,3-Trichloropropane	ug/L	ND	500	500	354	459	71	92	60-140	26			
1,2,4-Trichlorobenzene	ug/L	ND	500	500	437	463	87	93	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1100	500	500	1490	1710	79	123	60-140	14			
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	427	476	85	95	60-140	11			
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	383	480	77	96	60-140	22			
1,2-Dichlorobenzene	ug/L	ND	500	500	388	465	78	93	60-140	18			
1,2-Dichloroethane	ug/L	40.0	500	500	382	494	68	91	60-140	26			
1,2-Dichloropropane	ug/L	ND	500	500	379	487	76	97	60-140	25			
1,3,5-Trimethylbenzene	ug/L	ND	500	500	721	794	144	159	60-140	10	M1		
1,3-Dichlorobenzene	ug/L	ND	500	500	400	476	80	95	60-140	17			
1,3-Dichloropropane	ug/L	ND	500	500	368	444	74	89	60-140	19			
1,4-Dichlorobenzene	ug/L	ND	500	500	386	456	77	91	60-140	17			
2,2-Dichloropropane	ug/L	ND	500	500	397	536	79	107	60-140	30			
2-Chlorotoluene	ug/L	ND	500	500	440	490	88	98	60-140	11			
4-Chlorotoluene	ug/L	ND	500	500	385	447	77	89	60-140	15			
Benzene	ug/L	488	500	500	838	1050	70	113	60-140	23			
Bromobenzene	ug/L	ND	500	500	399	452	80	90	60-140	13			
Bromochloromethane	ug/L	ND	500	500	377	492	75	98	60-140	27			
Bromodichloromethane	ug/L	ND	500	500	348	461	70	92	60-140	28			
Bromoform	ug/L	ND	500	500	355	438	71	88	60-140	21			
Bromomethane	ug/L	ND	500	500	502	645	100	129	60-140	25			
Carbon tetrachloride	ug/L	ND	500	500	408	595	82	119	60-140	37	R1		
Chlorobenzene	ug/L	ND	500	500	393	489	79	98	60-140	22			
Chloroethane	ug/L	ND	500	500	362	496	72	99	60-140	31	R1		
Chloroform	ug/L	ND	500	500	383	471	77	94	60-140	21			
Chloromethane	ug/L	ND	500	500	321	421	64	84	60-140	27			
cis-1,2-Dichloroethene	ug/L	ND	500	500	353	452	71	90	60-140	25			
cis-1,3-Dichloropropene	ug/L	ND	500	500	361	491	72	98	60-140	31	R1		
Dibromochloromethane	ug/L	ND	500	500	380	479	76	96	60-140	23			
Dibromomethane	ug/L	ND	500	500	391	495	78	99	60-140	24			
Dichlorodifluoromethane	ug/L	ND	500	500	366	490	73	98	60-140	29			
Diisopropyl ether	ug/L	150	500	500	477	623	65	95	60-140	27			
Ethylbenzene	ug/L	695	500	500	1120	1350	85	131	60-140	19			
Hexachloro-1,3-butadiene	ug/L	ND	500	500	491	508	98	102	60-140	3			
Isopropylbenzene (Cumene)	ug/L	43.5	500	500	462	539	84	99	60-140	15			
m&p-Xylene	ug/L	3520	1000	1000	4590	5350	107	183	60-140	15	M1		
Methyl-tert-butyl ether	ug/L	ND	500	500	350	471	70	94	60-140	29			
Methylene Chloride	ug/L	ND	500	500	376	478	75	96	60-140	24			

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

Parameter	92525961002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
n-Butylbenzene	ug/L	ND	500	500	429	483	86	97	60-140	12				
n-Propylbenzene	ug/L	ND	500	500	492	553	98	111	60-140	12				
Naphthalene	ug/L	551	500	500	881	968	66	83	60-140	9				
o-Xylene	ug/L	2050	500	500	2550	2870	100	164	60-140	12	M1			
sec-Butylbenzene	ug/L	ND	500	500	413	467	83	93	60-140	12				
Styrene	ug/L	ND	500	500	418	488	84	98	60-140	15				
tert-Butylbenzene	ug/L	ND	500	500	341	391	68	78	60-140	14				
Tetrachloroethene	ug/L	ND	500	500	412	514	82	103	60-140	22				
Toluene	ug/L	3810	500	500	3560	4760	-51	190	60-140	29	M1			
trans-1,2-Dichloroethene	ug/L	ND	500	500	382	519	76	104	60-140	30				
trans-1,3-Dichloropropene	ug/L	ND	500	500	351	477	70	95	60-140	31	R1			
Trichloroethene	ug/L	ND	500	500	387	503	77	101	60-140	26				
Trichlorofluoromethane	ug/L	ND	500	500	393	519	79	104	60-140	28				
Vinyl chloride	ug/L	ND	500	500	333	448	67	90	60-140	30				
1,2-Dichloroethane-d4 (S)	%						90	98	70-130					
4-Bromofluorobenzene (S)	%						101	99	70-130					
Toluene-d8 (S)	%						87	98	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Colonial Pipeline (3/8/21)

Pace Project No.: 92526264

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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.

### ANALYTE QUALIFIERS

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

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/8/21)  
Pace Project No.: 92526264

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526264001	MW-14D	MADEPV	1632741	MADEP VPH	1632741
92526264002	MW-62D	MADEPV	1634414	MADEP VPH	1634414
92526264003	EB-1-20210308	MADEPV	1632741	MADEP VPH	1632741
92526264004	FB-1-20210308	MADEPV	1632741	MADEP VPH	1632741
92526264001	MW-14D	EPA 3010A	605365	EPA 6010D	605389
92526264002	MW-62D	EPA 3010A	605365	EPA 6010D	605389
92526264003	EB-1-20210308	EPA 3010A	605365	EPA 6010D	605389
92526264001	MW-14D	SM 6200B	605329		
92526264002	MW-62D	SM 6200B	605328		
92526264003	EB-1-20210308	SM 6200B	605328		
92526264004	FB-1-20210308	SM 6200B	605328		
92526264005	Trip Blank	SM 6200B	605328		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM**

Billing Information:

Address: **6800 Eastview Dr Suite 200  
Crestline, ND 58210**

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or

# W0#: 92526264

Report To: **Andrew Wreschning**

Email To: **Andrew.Wreschning@aecom.com**

Copy To: \_\_\_\_\_

Container Preservative: **3 3 1**

Analyses: \_\_\_\_\_

Lab Profile/Line: \_\_\_\_\_

Customer Project Name/Number: **Colonial Pipeline**

State: / County/City: \_\_\_\_\_ Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Lab Sample Receipt Checklist:

Phone: **7045220330** Site/Facility ID #: \_\_\_\_\_ Compliance Monitoring? [ ] Yes [ ] No

Custody Seals Present/Intact  NA  
Custody Signatures Present  NA  
Collector Signatures Present  NA  
Bottles Intact  NA  
Correct Bottles  NA  
Sufficient Volume  NA  
Samples Received on Ice  NA  
VOA - Headspace Acceptable  NA  
USDA Regulated Soils  NA  
Samples in Holding Time  NA  
Residual Chlorine Present  NA  
Cl Strips:  NA

Collected By (print): \_\_\_\_\_ Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_

Turnaround Date Required: \_\_\_\_\_ Immediately Packed on Ice: [ ] Yes [ ] No  
Field Filtered (if applicable): [ ] Yes [ ] No  
Analysis: \_\_\_\_\_

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold: \_\_\_\_\_

Sample pH Acceptable  NA  
pH Strips: **238RAV**  NA  
Sulfide Present  NA  
Lead Acetate Strips: \_\_\_\_\_  NA

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

LAB USE ONLY: Lab Sample # / Comments: **9526264**

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MM-14D	GW	G			3/8/21	1500		8
MM-162D								
EB-1-20210308	WT	I				1410		
EB-1-20210308	WT	I				1645		
TRIP Blank								

Lab Tracking #:	SHOIT HOLDS PRESENT (<72 hours):	Y	N	N/A
2618825				

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: **6 bags**

Radchem sample(s) screened (<500 cpm): Y N N (NA)

Received by/Company: (Signature) **MDX Pac HVL** Date/Time: **3/8/21**

Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples received via: FEDEX UPS Client

Courier: **MTIL LAB USE ONLY**

Table #: \_\_\_\_\_

Accnum: \_\_\_\_\_

Template: \_\_\_\_\_

Preflag: \_\_\_\_\_

PM: \_\_\_\_\_

PP: \_\_\_\_\_

Temp Blank Received:  Y  N  NA

Therm ID#: **IRRETT04**

Cooler 1 Temp Upon Receipt: **32.0C**

Cooler 1 Therm Corr. Factor: **0.0C**

Cooler 1 Corrected Temp: **32.0C**

Comments: \_\_\_\_\_

Non Conformance(s): \_\_\_\_\_ Page: \_\_\_\_\_ of: \_\_\_\_\_

March 12, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

---

### **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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526616001	MW-79	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526616002	MW-80	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526616003	FB-1-20210309	MADEP VPH	BMB	6	PAN
		SM 6200B	SAS	63	PASI-C
92526616004	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

Sample: MW-79	Lab ID: 92526616001	Collected: 03/09/21 11:15	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 01:04	03/12/21 01:04		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 01:04	03/12/21 01:04		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 01:04	03/12/21 01:04	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 01:04	03/12/21 01:04	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	97.1	%	70.0-130	1	03/12/21 01:04	03/12/21 01:04	615-59-8FID	
2,5-Dibromotoluene (PID)	94.5	%	70.0-130	1	03/12/21 01:04	03/12/21 01:04	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/11/21 17:36	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 03:41	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 03:41	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 03:41	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 03:41	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 03:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 03:41	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 03:41	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 03:41	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 03:41	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 03:41	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 03:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 03:41	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 03:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 03:41	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 03:41	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 03:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 03:41	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 03:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 03:41	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 03:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 03:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 03:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 03:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 03:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 03:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 03:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 03:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 03:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 03:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 03:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 03:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 03:41	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526616

Sample: MW-79	Lab ID: 92526616001	Collected: 03/09/21 11:15	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 03:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 03:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 03:41	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 03:41	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 03:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 03:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 03:41	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 03:41	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 03:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 03:41	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 03:41	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 03:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 03:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 03:41	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 03:41	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 03:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 03:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 03:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 03:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 03:41	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 03:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 03:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 03:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 03:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 03:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 03:41	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 03:41	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 03:41	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/11/21 03:41	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/11/21 03:41	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		03/11/21 03:41	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

Sample: MW-80	Lab ID: 92526616002	Collected: 03/09/21 09:35	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 01:37	03/12/21 01:37		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 01:37	03/12/21 01:37		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 01:37	03/12/21 01:37	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 01:37	03/12/21 01:37	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.6	%	70.0-130	1	03/12/21 01:37	03/12/21 01:37	615-59-8FID	
2,5-Dibromotoluene (PID)	94.6	%	70.0-130	1	03/12/21 01:37	03/12/21 01:37	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/11/21 17:49	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 03:59	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 03:59	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 03:59	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 03:59	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 03:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 03:59	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 03:59	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 03:59	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 03:59	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 03:59	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 03:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 03:59	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 03:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 03:59	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 03:59	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 03:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 03:59	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 03:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 03:59	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 03:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 03:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 03:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 03:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 03:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 03:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 03:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 03:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 03:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 03:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 03:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 03:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 03:59	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526616

Sample: MW-80	Lab ID: 92526616002	Collected: 03/09/21 09:35	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 03:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 03:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 03:59	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 03:59	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 03:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 03:59	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 03:59	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 03:59	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 03:59	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 03:59	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 03:59	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 03:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 03:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 03:59	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 03:59	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 03:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 03:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 03:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 03:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 03:59	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 03:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 03:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 03:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 03:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 03:59	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 03:59	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 03:59	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 03:59	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		03/11/21 03:59	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1		03/11/21 03:59	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/11/21 03:59	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

Sample: <b>FB-1-20210309</b>	Lab ID: <b>92526616003</b>	Collected: 03/09/21 09:35	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 02:10	03/12/21 02:10		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 02:10	03/12/21 02:10		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 02:10	03/12/21 02:10	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 02:10	03/12/21 02:10	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	99.9	%	70.0-130	1	03/12/21 02:10	03/12/21 02:10	615-59-8FID	
2,5-Dibromotoluene (PID)	97.0	%	70.0-130	1	03/12/21 02:10	03/12/21 02:10	615-59-8PID	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 00:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 00:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 00:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 00:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 00:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 00:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 00:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 00:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 00:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 00:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 00:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 00:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 00:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 00:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 00:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 00:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 00:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 00:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 00:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 00:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 00:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 00:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 00:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 00:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 00:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 00:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 00:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 00:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 00:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 00:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 00:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 00:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 00:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 00:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 00:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 00:43	108-20-3	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526616

Sample: <b>FB-1-20210309</b>		Lab ID: <b>92526616003</b>		Collected: 03/09/21 09:35	Received: 03/09/21 18:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 00:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 00:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 00:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 00:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 00:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 00:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 00:43	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 00:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 00:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 00:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 00:43	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 00:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 00:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 00:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 00:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 00:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 00:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 00:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 00:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 00:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 00:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 00:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 00:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 00:43	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/11/21 00:43	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/11/21 00:43	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		03/11/21 00:43	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526616

Sample: Trip Blank		Lab ID: 92526616004	Collected: 03/09/21 00:00	Received: 03/09/21 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/11/21 01:00	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 01:00	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 01:00	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 01:00	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 01:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 01:00	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 01:00	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 01:00	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 01:00	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 01:00	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 01:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 01:00	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 01:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 01:00	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 01:00	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 01:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 01:00	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 01:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 01:00	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 01:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 01:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 01:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 01:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 01:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 01:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 01:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 01:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 01:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 01:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 01:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 01:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 01:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 01:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 01:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 01:00	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 01:00	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 01:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 01:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 01:00	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 01:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 01:00	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 01:00	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 01:00	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 01:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 01:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 01:00	79-34-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

Sample: Trip Blank		Lab ID: 92526616004	Collected: 03/09/21 00:00	Received: 03/09/21 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 01:00	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 01:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 01:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 01:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 01:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 01:00	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 01:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 01:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 01:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 01:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 01:00	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 01:00	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 01:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 01:00	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		03/11/21 01:00	17060-07-0	
4-Bromofluorobenzene (S)	107	%	70-130	1		03/11/21 01:00	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/11/21 01:00	2037-26-5	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526616

QC Batch: 1633352	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526616001, 92526616002, 92526616003

METHOD BLANK: R3629975-3 Matrix: Water

Associated Lab Samples: 92526616001, 92526616002, 92526616003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/11/21 14:59	
Aliphatic (C09-C12)	ug/L	ND	100	03/11/21 14:59	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/11/21 14:59	
Total VPH	ug/L	ND	100	03/11/21 14:59	
2,5-Dibromotoluene (FID)	%	89.8	70.0-130	03/11/21 14:59	
2,5-Dibromotoluene (PID)	%	87.4	70.0-130	03/11/21 14:59	

LABORATORY CONTROL SAMPLE & LCSD: R3629975-1 R3629975-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1140	1150	95.0	95.8	70.0-130	0.873	25	
Aliphatic (C09-C12)	ug/L	1400	1490	1500	106	107	70.0-130	0.669	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	215	211	108	105	70.0-130	1.88	25	
Total VPH	ug/L	2800	2850	2860	102	102	70.0-130	0.350	25	
2,5-Dibromotoluene (FID)	%				91.7	92.3	70.0-130			
2,5-Dibromotoluene (PID)	%				90.4	90.4	70.0-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526616

QC Batch: 605752	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526616001, 92526616002

METHOD BLANK: 3191496 Matrix: Water

Associated Lab Samples: 92526616001, 92526616002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/11/21 17:30	

LABORATORY CONTROL SAMPLE: 3191497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3191498 3191499

Parameter	Units	92526616001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Lead	ug/L	ND	500	501	495	100	99	75-125	1				

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

QC Batch: 605647 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92526616001, 92526616002, 92526616003, 92526616004

METHOD BLANK: 3190948 Matrix: Water  
Associated Lab Samples: 92526616001, 92526616002, 92526616003, 92526616004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 00:25	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 00:25	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 00:25	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 00:25	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 00:25	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 00:25	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 00:25	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 00:25	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 00:25	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 00:25	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 00:25	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 00:25	
Benzene	ug/L	ND	0.50	03/11/21 00:25	
Bromobenzene	ug/L	ND	0.50	03/11/21 00:25	
Bromochloromethane	ug/L	ND	0.50	03/11/21 00:25	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 00:25	
Bromoform	ug/L	ND	0.50	03/11/21 00:25	
Bromomethane	ug/L	ND	5.0	03/11/21 00:25	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 00:25	
Chlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
Chloroethane	ug/L	ND	1.0	03/11/21 00:25	
Chloroform	ug/L	ND	0.50	03/11/21 00:25	
Chloromethane	ug/L	ND	1.0	03/11/21 00:25	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 00:25	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 00:25	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 00:25	
Dibromomethane	ug/L	ND	0.50	03/11/21 00:25	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 00:25	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 00:25	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

METHOD BLANK: 3190948 Matrix: Water  
Associated Lab Samples: 92526616001, 92526616002, 92526616003, 92526616004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 00:25	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 00:25	
m&p-Xylene	ug/L	ND	1.0	03/11/21 00:25	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 00:25	
Methylene Chloride	ug/L	ND	2.0	03/11/21 00:25	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 00:25	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Naphthalene	ug/L	ND	2.0	03/11/21 00:25	
o-Xylene	ug/L	ND	0.50	03/11/21 00:25	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Styrene	ug/L	ND	0.50	03/11/21 00:25	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 00:25	
Toluene	ug/L	ND	0.50	03/11/21 00:25	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 00:25	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 00:25	
Trichloroethene	ug/L	ND	0.50	03/11/21 00:25	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 00:25	
Vinyl chloride	ug/L	ND	1.0	03/11/21 00:25	
1,2-Dichloroethane-d4 (S)	%	101	70-130	03/11/21 00:25	
4-Bromofluorobenzene (S)	%	105	70-130	03/11/21 00:25	
Toluene-d8 (S)	%	104	70-130	03/11/21 00:25	

LABORATORY CONTROL SAMPLE: 3190949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.3	99	60-140	
1,1,1-Trichloroethane	ug/L	50	50.7	101	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	60-140	
1,1,2-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1-Dichloroethane	ug/L	50	50.4	101	60-140	
1,1-Dichloroethene	ug/L	50	51.3	103	60-140	
1,1-Dichloropropene	ug/L	50	53.3	107	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.8	96	60-140	
1,2,3-Trichloropropane	ug/L	50	48.1	96	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.9	98	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.9	92	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	60-140	
1,2-Dichlorobenzene	ug/L	50	45.3	91	60-140	
1,2-Dichloroethane	ug/L	50	51.2	102	60-140	
1,2-Dichloropropane	ug/L	50	48.9	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	45.7	91	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

LABORATORY CONTROL SAMPLE: 3190949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.8	94	60-140	
1,3-Dichloropropane	ug/L	50	47.1	94	60-140	
1,4-Dichlorobenzene	ug/L	50	45.1	90	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	44.9	90	60-140	
4-Chlorotoluene	ug/L	50	44.7	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	43.9	88	60-140	
Bromochloromethane	ug/L	50	53.9	108	60-140	
Bromodichloromethane	ug/L	50	50.5	101	60-140	
Bromoform	ug/L	50	40.4	81	60-140	
Bromomethane	ug/L	50	55.5	111	60-140	
Carbon tetrachloride	ug/L	50	50.3	101	60-140	
Chlorobenzene	ug/L	50	45.6	91	60-140	
Chloroethane	ug/L	50	45.7	91	60-140	
Chloroform	ug/L	50	50.0	100	60-140	
Chloromethane	ug/L	50	40.2	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.4	97	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	50.2	100	60-140	
Dibromomethane	ug/L	50	51.7	103	60-140	
Dichlorodifluoromethane	ug/L	50	45.3	91	60-140	
Diisopropyl ether	ug/L	50	48.2	96	60-140	
Ethylbenzene	ug/L	50	45.8	92	60-140	
Hexachloro-1,3-butadiene	ug/L	50	46.6	93	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.2	94	60-140	
m&p-Xylene	ug/L	100	91.5	91	60-140	
Methyl-tert-butyl ether	ug/L	50	51.8	104	60-140	
Methylene Chloride	ug/L	50	45.5	91	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	44.7	89	60-140	
Naphthalene	ug/L	50	48.8	98	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	46.3	93	60-140	
Styrene	ug/L	50	46.4	93	60-140	
tert-Butylbenzene	ug/L	50	37.2	74	60-140	
Tetrachloroethene	ug/L	50	45.7	91	60-140	
Toluene	ug/L	50	48.5	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	49.5	99	60-140	
Trichlorofluoromethane	ug/L	50	46.0	92	60-140	
Vinyl chloride	ug/L	50	43.2	86	60-140	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

Parameter	92525844002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	<12.4	800	800	871	890	109	111	60-140	2				
1,1,1-Trichloroethane	ug/L	<13.3	800	800	1020	1100	128	137	60-140	7				
1,1,2,2-Tetrachloroethane	ug/L	<9.0	800	800	875	928	109	116	60-140	6				
1,1,2-Trichloroethane	ug/L	<13.0	800	800	995	1020	124	127	60-140	2				
1,1-Dichloroethane	ug/L	<14.7	800	800	1020	1030	127	129	60-140	2				
1,1-Dichloroethene	ug/L	<13.9	800	800	1080	1100	135	137	60-140	2				
1,1-Dichloropropene	ug/L	<17.1	800	800	1060	1070	132	134	60-140	2				
1,2,3-Trichlorobenzene	ug/L	<32.2	800	800	814	861	102	108	60-140	6				
1,2,3-Trichloropropane	ug/L	<10.4	800	800	925	925	116	116	60-140	0				
1,2,4-Trichlorobenzene	ug/L	<25.6	800	800	868	832	108	104	60-140	4				
1,2,4-Trimethylbenzene	ug/L	6760	800	800	7410	7020	82	33	60-140	5	M1			
1,2-Dibromo-3-chloropropane	ug/L	<13.6	800	800	857	900	107	113	60-140	5				
1,2-Dibromoethane (EDB)	ug/L	<10.9	800	800	889	908	111	113	60-140	2				
1,2-Dichlorobenzene	ug/L	<13.6	800	800	887	850	111	106	60-140	4				
1,2-Dichloroethane	ug/L	<12.9	800	800	985	1030	123	128	60-140	4				
1,2-Dichloropropane	ug/L	<14.2	800	800	1000	984	125	123	60-140	2				
1,3,5-Trimethylbenzene	ug/L	1950	800	800	2790	2650	105	87	60-140	5				
1,3-Dichlorobenzene	ug/L	<13.6	800	800	858	848	107	106	60-140	1				
1,3-Dichloropropane	ug/L	<11.4	800	800	874	890	109	111	60-140	2				
1,4-Dichlorobenzene	ug/L	<13.3	800	800	828	842	104	105	60-140	2				
2,2-Dichloropropane	ug/L	<15.5	800	800	884	901	110	113	60-140	2				
2-Chlorotoluene	ug/L	<12.8	800	800	945	907	118	113	60-140	4				
4-Chlorotoluene	ug/L	<13.0	800	800	843	841	105	105	60-140	0				
Benzene	ug/L	715	800	800	1710	1740	124	128	60-140	2				
Bromobenzene	ug/L	<11.6	800	800	864	858	108	107	60-140	1				
Bromochloromethane	ug/L	<18.7	800	800	1030	1060	128	133	60-140	3				
Bromodichloromethane	ug/L	<12.3	800	800	989	996	124	124	60-140	1				
Bromoform	ug/L	<13.6	800	800	721	737	90	92	60-140	2				
Bromomethane	ug/L	<66.4	800	800	846	765	106	96	60-140	10				
Carbon tetrachloride	ug/L	<13.3	800	800	1020	1030	127	129	60-140	1				
Chlorobenzene	ug/L	<11.4	800	800	876	891	109	111	60-140	2				
Chloroethane	ug/L	<26.0	800	800	1070	1010	134	126	60-140	6				
Chloroform	ug/L	<14.1	800	800	1010	1060	126	133	60-140	5				
Chloromethane	ug/L	<21.6	800	800	796	804	99	100	60-140	1				
cis-1,2-Dichloroethene	ug/L	<15.4	800	800	953	991	119	124	60-140	4				
cis-1,3-Dichloropropene	ug/L	<14.6	800	800	950	984	119	123	60-140	4				
Dibromochloromethane	ug/L	<14.4	800	800	867	873	108	109	60-140	1				
Dibromomethane	ug/L	<15.8	800	800	968	1020	121	128	60-140	6				
Dichlorodifluoromethane	ug/L	<13.8	800	800	987	1030	123	129	60-140	4				
Diisopropyl ether	ug/L	<12.3	800	800	923	940	115	118	60-140	2				
Ethylbenzene	ug/L	3730	800	800	4480	4530	94	99	60-140	1				
Hexachloro-1,3-butadiene	ug/L	<61.2	800	800	781	779	98	97	60-140	0				
Isopropylbenzene (Cumene)	ug/L	348	800	800	1220	1210	109	108	60-140	1				
m&p-Xylene	ug/L	12000	1600	1600	13200	13200	76	79	60-140	0				
Methyl-tert-butyl ether	ug/L	<16.9	800	800	998	1030	125	129	60-140	3				
Methylene Chloride	ug/L	<78.0	800	800	915	940	114	118	60-140	3				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526616

Parameter	92525844002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
n-Butylbenzene	ug/L	272	800	800	1350	1280	135	126	60-140	6				
n-Propylbenzene	ug/L	<13.6	800	800	1950	1880	244	235	60-140	4	M1			
Naphthalene	ug/L	693	800	800	1500	1540	101	106	60-140	3				
o-Xylene	ug/L	1600	800	800	2430	2480	104	110	60-140	2				
sec-Butylbenzene	ug/L	<16.0	800	800	933	945	117	118	60-140	1				
Styrene	ug/L	<11.7	800	800	847	873	106	109	60-140	3				
tert-Butylbenzene	ug/L	<12.9	800	800	706	725	88	91	60-140	3				
Tetrachloroethene	ug/L	<11.7	800	800	848	883	106	110	60-140	4				
Toluene	ug/L	191	800	800	1180	1190	123	125	60-140	1				
trans-1,2-Dichloroethene	ug/L	<15.8	800	800	1000	1030	125	129	60-140	3				
trans-1,3-Dichloropropene	ug/L	<14.5	800	800	923	926	115	116	60-140	0				
Trichloroethene	ug/L	<15.3	800	800	985	1000	123	125	60-140	2				
Trichlorofluoromethane	ug/L	<11.9	800	800	1010	1010	127	126	60-140	0				
Vinyl chloride	ug/L	<15.4	800	800	915	926	114	116	60-140	1				
1,2-Dichloroethane-d4 (S)	%						98	105	70-130					
4-Bromofluorobenzene (S)	%						100	100	70-130					
Toluene-d8 (S)	%						102	102	70-130					

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: Colonial Pipeline (3/9/21)

Pace Project No.: 92526616

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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.

### ANALYTE QUALIFIERS

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526616

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526616001	MW-79	MADEPV	1633352	MADEP VPH	1633352
92526616002	MW-80	MADEPV	1633352	MADEP VPH	1633352
92526616003	FB-1-20210309	MADEPV	1633352	MADEP VPH	1633352
92526616001	MW-79	EPA 3010A	605752	EPA 6010D	605770
92526616002	MW-80	EPA 3010A	605752	EPA 6010D	605770
92526616001	MW-79	SM 6200B	605647		
92526616002	MW-80	SM 6200B	605647		
92526616003	FB-1-20210309	SM 6200B	605647		
92526616004	Trip Blank	SM 6200B	605647		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM**

Billing Information:

Address: **6000 Fairview Rd Suite 200  
Channahon, IL 61020**

LAB

MO# : 92526616

LAB Number or

Report To: **Andrew Wreschnig**

Email To: **awreschnig@aecom.com**

Site Collection Info/Address:

Cont 92526616  
\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: **Colonial Pipeline**

State: / Country/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone: / Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print):

DW PWS ID #: / DW Location Code:

Collected By (signature):

Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No Analysis: /

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cms
			Date	Time	Date	Time		
NW-3A	WT	G			3/12/11	11:15		8
NW-BD					09:35			1
FB-1-20210304					11:30			7
TRIP BLANK								1

6200  
VH  
Lead  
0109

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Met Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: Bubble bags

Lab Tracking #: 2618826

Radchem sample(s) screened (<500 gpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature)

Date/Time: 3/12/11

Received by/Company: (Signature) VSPAGE HW

Date/Time: 3/12/11 18:00

Table #: / MTL LAB USE ONLY

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Accum: / Template: / Prelog/in: / PM: / PB:

Lab Sample Temperature Info:

Temp Blank Received: Y N NA  
Therm ID#: 921664  
Cooler 1 Temp Upon Receipt: 19 oc  
Cooler 1 Therm Corr. Factor: 0 oc  
Cooler 1 Corrected Temp: 19 oc

Comments: Trip Blank Received: HCL MeOH TSP Other

Lab Profile/Line: / Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA  
Custody Signatures Present Y N NA  
Collector Signatures Present Y N NA  
Bottles Intact Y N NA  
Correct Bottles Y N NA  
Sufficient Volume Y N NA  
Samples Received on Ice Y N NA  
VOA - Headspace Acceptable Y N NA  
USDA Regulated Solids Y N NA  
Samples in Holding Time Y N NA  
Residual Chlorine Present Y N NA  
Cl Strips: Y N NA  
Sample pH acceptable Y N NA  
pH Strips: 7.25-19.1 Y N NA  
Sulfide Present Y N NA  
Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments: 92526616

001  
002  
003  
004

Non Conformance(s): YES NO Page: of:

March 12, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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

### **Pace Analytical Services Asheville**

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

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526617001	MW-42	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526617002	MW-67	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526617003	MW-68	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526617004	DUP-1-20210309	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526617005	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet  
PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

Sample: MW-42	Lab ID: 92526617001	Collected: 03/09/21 09:50	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 02:43	03/12/21 02:43		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 02:43	03/12/21 02:43		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 02:43	03/12/21 02:43	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 02:43	03/12/21 02:43	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	98.3	%	70.0-130	1	03/12/21 02:43	03/12/21 02:43	615-59-8FID	
2,5-Dibromotoluene (PID)	95.9	%	70.0-130	1	03/12/21 02:43	03/12/21 02:43	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	5.0	ug/L	5.0	1	03/11/21 02:16	03/11/21 17:53	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 04:16	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 04:16	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 04:16	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 04:16	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 04:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 04:16	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 04:16	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 04:16	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 04:16	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 04:16	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 04:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 04:16	75-00-3	
Chloroform	6.0	ug/L	0.50	1		03/11/21 04:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 04:16	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 04:16	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 04:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 04:16	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 04:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 04:16	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 04:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 04:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 04:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 04:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 04:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 04:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 04:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 04:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 04:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 04:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 04:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 04:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 04:16	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

Sample: MW-42	Lab ID: 92526617001	Collected: 03/09/21 09:50	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 04:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 04:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 04:16	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 04:16	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 04:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 04:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 04:16	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 04:16	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 04:16	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 04:16	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 04:16	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 04:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 04:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 04:16	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 04:16	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 04:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 04:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 04:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 04:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 04:16	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 04:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 04:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 04:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 04:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 04:16	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 04:16	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 04:16	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 04:16	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/11/21 04:16	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/11/21 04:16	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		03/11/21 04:16	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

Sample: MW-67	Lab ID: 92526617002	Collected: 03/09/21 15:20	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 03:16	03/12/21 03:16		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 03:16	03/12/21 03:16		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 03:16	03/12/21 03:16	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 03:16	03/12/21 03:16	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.7	%	70.0-130	1	03/12/21 03:16	03/12/21 03:16	615-59-8FID	
2,5-Dibromotoluene (PID)	93.6	%	70.0-130	1	03/12/21 03:16	03/12/21 03:16	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/11/21 17:56	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 04:34	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 04:34	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 04:34	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 04:34	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 04:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 04:34	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 04:34	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 04:34	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 04:34	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 04:34	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 04:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 04:34	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 04:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 04:34	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 04:34	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 04:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 04:34	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 04:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 04:34	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 04:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 04:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 04:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 04:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 04:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 04:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 04:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 04:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 04:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 04:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 04:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 04:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 04:34	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

Sample: MW-67	Lab ID: 92526617002	Collected: 03/09/21 15:20	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 04:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 04:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 04:34	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 04:34	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 04:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 04:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 04:34	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 04:34	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 04:34	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 04:34	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 04:34	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 04:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 04:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 04:34	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 04:34	127-18-4	
Toluene	<b>4.8</b>	ug/L	0.50	1		03/11/21 04:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 04:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 04:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 04:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 04:34	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 04:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 04:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 04:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 04:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 04:34	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 04:34	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 04:34	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 04:34	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/11/21 04:34	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		03/11/21 04:34	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		03/11/21 04:34	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

Sample: MW-68	Lab ID: 92526617003	Collected: 03/09/21 12:00	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 03:50	03/12/21 03:50		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 03:50	03/12/21 03:50		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 03:50	03/12/21 03:50	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 03:50	03/12/21 03:50	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	97.7	%	70.0-130	1	03/12/21 03:50	03/12/21 03:50	615-59-8FID	
2,5-Dibromotoluene (PID)	95.3	%	70.0-130	1	03/12/21 03:50	03/12/21 03:50	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	5.9	ug/L	5.0	1	03/11/21 02:16	03/11/21 17:59	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 04:52	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 04:52	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 04:52	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 04:52	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 04:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 04:52	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 04:52	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 04:52	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 04:52	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 04:52	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 04:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 04:52	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 04:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 04:52	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 04:52	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 04:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 04:52	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 04:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 04:52	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 04:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 04:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 04:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 04:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 04:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 04:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 04:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 04:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 04:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 04:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 04:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 04:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 04:52	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

Sample: MW-68	Lab ID: 92526617003	Collected: 03/09/21 12:00	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 04:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 04:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 04:52	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 04:52	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 04:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 04:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 04:52	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 04:52	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 04:52	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 04:52	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 04:52	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 04:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 04:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 04:52	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 04:52	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 04:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 04:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 04:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 04:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 04:52	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 04:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 04:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 04:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 04:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 04:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 04:52	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 04:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 04:52	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		03/11/21 04:52	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/11/21 04:52	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		03/11/21 04:52	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

Sample: DUP-1-20210309	Lab ID: 92526617004	Collected: 03/09/21 00:00	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 04:22	03/12/21 04:22		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 04:22	03/12/21 04:22		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 04:22	03/12/21 04:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 04:22	03/12/21 04:22	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.6	%	70.0-130	1	03/12/21 04:22	03/12/21 04:22	615-59-8FID	
2,5-Dibromotoluene (PID)	94.0	%	70.0-130	1	03/12/21 04:22	03/12/21 04:22	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/11/21 18:09	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 05:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 05:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 05:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 05:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 05:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 05:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 05:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 05:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 05:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 05:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 05:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 05:10	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 05:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 05:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 05:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 05:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 05:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 05:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 05:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 05:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 05:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 05:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 05:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 05:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 05:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 05:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 05:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 05:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 05:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 05:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 05:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 05:10	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

Sample: DUP-1-20210309		Lab ID: 92526617004		Collected: 03/09/21 00:00	Received: 03/09/21 18:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 05:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 05:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 05:10	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 05:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 05:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 05:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 05:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 05:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 05:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 05:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 05:10	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 05:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 05:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 05:10	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 05:10	127-18-4	
Toluene	4.1	ug/L	0.50	1		03/11/21 05:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 05:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 05:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 05:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 05:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 05:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 05:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 05:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 05:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 05:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 05:10	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 05:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 05:10	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/11/21 05:10	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/11/21 05:10	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/11/21 05:10	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

Sample: Trip Blank		Lab ID: 92526617005	Collected: 03/09/21 00:00	Received: 03/09/21 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/11/21 01:18	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 01:18	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 01:18	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 01:18	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 01:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 01:18	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 01:18	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 01:18	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 01:18	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 01:18	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 01:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 01:18	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 01:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 01:18	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 01:18	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 01:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 01:18	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 01:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 01:18	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 01:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 01:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 01:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 01:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 01:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 01:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 01:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 01:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 01:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 01:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 01:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 01:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 01:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 01:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 01:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 01:18	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 01:18	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 01:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 01:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 01:18	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 01:18	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 01:18	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 01:18	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 01:18	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 01:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 01:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 01:18	79-34-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

Sample: Trip Blank		Lab ID: 92526617005	Collected: 03/09/21 00:00	Received: 03/09/21 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 01:18	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 01:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 01:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 01:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 01:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 01:18	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 01:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 01:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 01:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 01:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 01:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 01:18	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 01:18	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 01:18	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		03/11/21 01:18	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/11/21 01:18	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		03/11/21 01:18	2037-26-5	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

QC Batch: 1633352      Analysis Method: MADEP VPH  
QC Batch Method: MADEPV      Analysis Description: MADEPV  
Laboratory: Pace National - Mt. Juliet  
Associated Lab Samples: 92526617001, 92526617002, 92526617003, 92526617004

METHOD BLANK: R3629975-3      Matrix: Water  
Associated Lab Samples: 92526617001, 92526617002, 92526617003, 92526617004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/11/21 14:59	
Aliphatic (C09-C12)	ug/L	ND	100	03/11/21 14:59	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/11/21 14:59	
Total VPH	ug/L	ND	100	03/11/21 14:59	
2,5-Dibromotoluene (FID)	%	89.8	70.0-130	03/11/21 14:59	
2,5-Dibromotoluene (PID)	%	87.4	70.0-130	03/11/21 14:59	

Parameter	Units	R3629975-1		R3629975-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1140	1150	95.0	95.8	70.0-130	0.873	25
Aliphatic (C09-C12)	ug/L	1400	1490	1500	106	107	70.0-130	0.669	25
Aromatic (C09-C10),Unadjusted	ug/L	200	215	211	108	105	70.0-130	1.88	25
Total VPH	ug/L	2800	2850	2860	102	102	70.0-130	0.350	25
2,5-Dibromotoluene (FID)	%				91.7	92.3	70.0-130		
2,5-Dibromotoluene (PID)	%				90.4	90.4	70.0-130		

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.

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

QC Batch:	605752	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92526617001, 92526617002, 92526617003, 92526617004

METHOD BLANK: 3191496 Matrix: Water

Associated Lab Samples: 92526617001, 92526617002, 92526617003, 92526617004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/11/21 17:30	

LABORATORY CONTROL SAMPLE: 3191497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3191498 3191499

Parameter	Units	92526616001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Lead	ug/L	ND	500	501	495	100	99	75-125	1				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

QC Batch: 605647 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92526617001, 92526617002, 92526617003, 92526617004, 92526617005

METHOD BLANK: 3190948 Matrix: Water  
Associated Lab Samples: 92526617001, 92526617002, 92526617003, 92526617004, 92526617005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 00:25	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 00:25	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 00:25	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 00:25	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 00:25	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 00:25	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 00:25	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 00:25	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 00:25	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 00:25	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 00:25	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 00:25	
Benzene	ug/L	ND	0.50	03/11/21 00:25	
Bromobenzene	ug/L	ND	0.50	03/11/21 00:25	
Bromochloromethane	ug/L	ND	0.50	03/11/21 00:25	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 00:25	
Bromoform	ug/L	ND	0.50	03/11/21 00:25	
Bromomethane	ug/L	ND	5.0	03/11/21 00:25	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 00:25	
Chlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
Chloroethane	ug/L	ND	1.0	03/11/21 00:25	
Chloroform	ug/L	ND	0.50	03/11/21 00:25	
Chloromethane	ug/L	ND	1.0	03/11/21 00:25	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 00:25	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 00:25	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 00:25	
Dibromomethane	ug/L	ND	0.50	03/11/21 00:25	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 00:25	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 00:25	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

METHOD BLANK: 3190948

Matrix: Water

Associated Lab Samples: 92526617001, 92526617002, 92526617003, 92526617004, 92526617005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 00:25	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 00:25	
m&p-Xylene	ug/L	ND	1.0	03/11/21 00:25	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 00:25	
Methylene Chloride	ug/L	ND	2.0	03/11/21 00:25	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 00:25	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Naphthalene	ug/L	ND	2.0	03/11/21 00:25	
o-Xylene	ug/L	ND	0.50	03/11/21 00:25	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Styrene	ug/L	ND	0.50	03/11/21 00:25	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 00:25	
Toluene	ug/L	ND	0.50	03/11/21 00:25	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 00:25	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 00:25	
Trichloroethene	ug/L	ND	0.50	03/11/21 00:25	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 00:25	
Vinyl chloride	ug/L	ND	1.0	03/11/21 00:25	
1,2-Dichloroethane-d4 (S)	%	101	70-130	03/11/21 00:25	
4-Bromofluorobenzene (S)	%	105	70-130	03/11/21 00:25	
Toluene-d8 (S)	%	104	70-130	03/11/21 00:25	

LABORATORY CONTROL SAMPLE: 3190949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.3	99	60-140	
1,1,1-Trichloroethane	ug/L	50	50.7	101	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	60-140	
1,1,2-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1-Dichloroethane	ug/L	50	50.4	101	60-140	
1,1-Dichloroethene	ug/L	50	51.3	103	60-140	
1,1-Dichloropropene	ug/L	50	53.3	107	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.8	96	60-140	
1,2,3-Trichloropropane	ug/L	50	48.1	96	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.9	98	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.9	92	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	60-140	
1,2-Dichlorobenzene	ug/L	50	45.3	91	60-140	
1,2-Dichloroethane	ug/L	50	51.2	102	60-140	
1,2-Dichloropropane	ug/L	50	48.9	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	45.7	91	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

LABORATORY CONTROL SAMPLE: 3190949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.8	94	60-140	
1,3-Dichloropropane	ug/L	50	47.1	94	60-140	
1,4-Dichlorobenzene	ug/L	50	45.1	90	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	44.9	90	60-140	
4-Chlorotoluene	ug/L	50	44.7	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	43.9	88	60-140	
Bromochloromethane	ug/L	50	53.9	108	60-140	
Bromodichloromethane	ug/L	50	50.5	101	60-140	
Bromoform	ug/L	50	40.4	81	60-140	
Bromomethane	ug/L	50	55.5	111	60-140	
Carbon tetrachloride	ug/L	50	50.3	101	60-140	
Chlorobenzene	ug/L	50	45.6	91	60-140	
Chloroethane	ug/L	50	45.7	91	60-140	
Chloroform	ug/L	50	50.0	100	60-140	
Chloromethane	ug/L	50	40.2	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.4	97	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	50.2	100	60-140	
Dibromomethane	ug/L	50	51.7	103	60-140	
Dichlorodifluoromethane	ug/L	50	45.3	91	60-140	
Diisopropyl ether	ug/L	50	48.2	96	60-140	
Ethylbenzene	ug/L	50	45.8	92	60-140	
Hexachloro-1,3-butadiene	ug/L	50	46.6	93	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.2	94	60-140	
m&p-Xylene	ug/L	100	91.5	91	60-140	
Methyl-tert-butyl ether	ug/L	50	51.8	104	60-140	
Methylene Chloride	ug/L	50	45.5	91	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	44.7	89	60-140	
Naphthalene	ug/L	50	48.8	98	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	46.3	93	60-140	
Styrene	ug/L	50	46.4	93	60-140	
tert-Butylbenzene	ug/L	50	37.2	74	60-140	
Tetrachloroethene	ug/L	50	45.7	91	60-140	
Toluene	ug/L	50	48.5	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	49.5	99	60-140	
Trichlorofluoromethane	ug/L	50	46.0	92	60-140	
Vinyl chloride	ug/L	50	43.2	86	60-140	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

Parameter	92525844002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	<12.4	800	800	871	890	109	111	60-140	2				
1,1,1-Trichloroethane	ug/L	<13.3	800	800	1020	1100	128	137	60-140	7				
1,1,2,2-Tetrachloroethane	ug/L	<9.0	800	800	875	928	109	116	60-140	6				
1,1,2-Trichloroethane	ug/L	<13.0	800	800	995	1020	124	127	60-140	2				
1,1-Dichloroethane	ug/L	<14.7	800	800	1020	1030	127	129	60-140	2				
1,1-Dichloroethene	ug/L	<13.9	800	800	1080	1100	135	137	60-140	2				
1,1-Dichloropropene	ug/L	<17.1	800	800	1060	1070	132	134	60-140	2				
1,2,3-Trichlorobenzene	ug/L	<32.2	800	800	814	861	102	108	60-140	6				
1,2,3-Trichloropropane	ug/L	<10.4	800	800	925	925	116	116	60-140	0				
1,2,4-Trichlorobenzene	ug/L	<25.6	800	800	868	832	108	104	60-140	4				
1,2,4-Trimethylbenzene	ug/L	6760	800	800	7410	7020	82	33	60-140	5	M1			
1,2-Dibromo-3-chloropropane	ug/L	<13.6	800	800	857	900	107	113	60-140	5				
1,2-Dibromoethane (EDB)	ug/L	<10.9	800	800	889	908	111	113	60-140	2				
1,2-Dichlorobenzene	ug/L	<13.6	800	800	887	850	111	106	60-140	4				
1,2-Dichloroethane	ug/L	<12.9	800	800	985	1030	123	128	60-140	4				
1,2-Dichloropropane	ug/L	<14.2	800	800	1000	984	125	123	60-140	2				
1,3,5-Trimethylbenzene	ug/L	1950	800	800	2790	2650	105	87	60-140	5				
1,3-Dichlorobenzene	ug/L	<13.6	800	800	858	848	107	106	60-140	1				
1,3-Dichloropropane	ug/L	<11.4	800	800	874	890	109	111	60-140	2				
1,4-Dichlorobenzene	ug/L	<13.3	800	800	828	842	104	105	60-140	2				
2,2-Dichloropropane	ug/L	<15.5	800	800	884	901	110	113	60-140	2				
2-Chlorotoluene	ug/L	<12.8	800	800	945	907	118	113	60-140	4				
4-Chlorotoluene	ug/L	<13.0	800	800	843	841	105	105	60-140	0				
Benzene	ug/L	715	800	800	1710	1740	124	128	60-140	2				
Bromobenzene	ug/L	<11.6	800	800	864	858	108	107	60-140	1				
Bromochloromethane	ug/L	<18.7	800	800	1030	1060	128	133	60-140	3				
Bromodichloromethane	ug/L	<12.3	800	800	989	996	124	124	60-140	1				
Bromoform	ug/L	<13.6	800	800	721	737	90	92	60-140	2				
Bromomethane	ug/L	<66.4	800	800	846	765	106	96	60-140	10				
Carbon tetrachloride	ug/L	<13.3	800	800	1020	1030	127	129	60-140	1				
Chlorobenzene	ug/L	<11.4	800	800	876	891	109	111	60-140	2				
Chloroethane	ug/L	<26.0	800	800	1070	1010	134	126	60-140	6				
Chloroform	ug/L	<14.1	800	800	1010	1060	126	133	60-140	5				
Chloromethane	ug/L	<21.6	800	800	796	804	99	100	60-140	1				
cis-1,2-Dichloroethene	ug/L	<15.4	800	800	953	991	119	124	60-140	4				
cis-1,3-Dichloropropene	ug/L	<14.6	800	800	950	984	119	123	60-140	4				
Dibromochloromethane	ug/L	<14.4	800	800	867	873	108	109	60-140	1				
Dibromomethane	ug/L	<15.8	800	800	968	1020	121	128	60-140	6				
Dichlorodifluoromethane	ug/L	<13.8	800	800	987	1030	123	129	60-140	4				
Diisopropyl ether	ug/L	<12.3	800	800	923	940	115	118	60-140	2				
Ethylbenzene	ug/L	3730	800	800	4480	4530	94	99	60-140	1				
Hexachloro-1,3-butadiene	ug/L	<61.2	800	800	781	779	98	97	60-140	0				
Isopropylbenzene (Cumene)	ug/L	348	800	800	1220	1210	109	108	60-140	1				
m&p-Xylene	ug/L	12000	1600	1600	13200	13200	76	79	60-140	0				
Methyl-tert-butyl ether	ug/L	<16.9	800	800	998	1030	125	129	60-140	3				
Methylene Chloride	ug/L	<78.0	800	800	915	940	114	118	60-140	3				

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

Parameter	92525844002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
n-Butylbenzene	ug/L	272	800	800	1350	1280	135	126	60-140	6				
n-Propylbenzene	ug/L	<13.6	800	800	1950	1880	244	235	60-140	4	M1			
Naphthalene	ug/L	693	800	800	1500	1540	101	106	60-140	3				
o-Xylene	ug/L	1600	800	800	2430	2480	104	110	60-140	2				
sec-Butylbenzene	ug/L	<16.0	800	800	933	945	117	118	60-140	1				
Styrene	ug/L	<11.7	800	800	847	873	106	109	60-140	3				
tert-Butylbenzene	ug/L	<12.9	800	800	706	725	88	91	60-140	3				
Tetrachloroethene	ug/L	<11.7	800	800	848	883	106	110	60-140	4				
Toluene	ug/L	191	800	800	1180	1190	123	125	60-140	1				
trans-1,2-Dichloroethene	ug/L	<15.8	800	800	1000	1030	125	129	60-140	3				
trans-1,3-Dichloropropene	ug/L	<14.5	800	800	923	926	115	116	60-140	0				
Trichloroethene	ug/L	<15.3	800	800	985	1000	123	125	60-140	2				
Trichlorofluoromethane	ug/L	<11.9	800	800	1010	1010	127	126	60-140	0				
Vinyl chloride	ug/L	<15.4	800	800	915	926	114	116	60-140	1				
1,2-Dichloroethane-d4 (S)	%						98	105	70-130					
4-Bromofluorobenzene (S)	%						100	100	70-130					
Toluene-d8 (S)	%						102	102	70-130					

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## QUALIFIERS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526617

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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.

### ANALYTE QUALIFIERS

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526617

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526617001	MW-42	MADEPV	1633352	MADEP VPH	1633352
92526617002	MW-67	MADEPV	1633352	MADEP VPH	1633352
92526617003	MW-68	MADEPV	1633352	MADEP VPH	1633352
92526617004	DUP-1-20210309	MADEPV	1633352	MADEP VPH	1633352
92526617001	MW-42	EPA 3010A	605752	EPA 6010D	605770
92526617002	MW-67	EPA 3010A	605752	EPA 6010D	605770
92526617003	MW-68	EPA 3010A	605752	EPA 6010D	605770
92526617004	DUP-1-20210309	EPA 3010A	605752	EPA 6010D	605770
92526617001	MW-42	SM 6200B	605647		
92526617002	MW-67	SM 6200B	605647		
92526617003	MW-68	SM 6200B	605647		
92526617004	DUP-1-20210309	SM 6200B	605647		
92526617005	Trip Blank	SM 6200B	605647		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM** Billing Information: \_\_\_\_\_  
 Address: **6000 FORTVIEW BL, SUITE 200**  
**CHARLOTTE, NC 28210**

Report To: **Andrew Wreschnig** Email To: **Andrew.Wreschnig@aecom.com**  
 Site Collection Info/Address: \_\_\_\_\_

Customer Project Name/Number: **Colonial Pipeline** State: \_\_\_\_\_ County/City: \_\_\_\_\_ Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone: \_\_\_\_\_ Site/Facility ID #: \_\_\_\_\_ Compliance Monitoring? [ ] Yes [ ] No  
 Email: \_\_\_\_\_

Collected By (print): \_\_\_\_\_ Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_  
 Quote #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_

Collected By (signature): \_\_\_\_\_ Turnaround Date Required: \_\_\_\_\_ Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: \_\_\_\_\_ Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 [ ] Dispose as appropriate [ ] Return [ ] Archive: \_\_\_\_\_ [ ] Hold: \_\_\_\_\_ (Expedite Charges Apply) Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cns
			Date	Time	Date	Time		
MM-42	WT	G			3/12/21	0950		8
MM-67					1520			
MM-68					1200			
DUP-1-20210309								
TRIP BLANK								

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used:  Wet  Blue  Dry  None  
 Packing Material Used: **Bubble bags**

Radchem sample(s) screened (<5000 cpm): Y N **(NA)**

Relinquished by/Company: (Signature) **Yunbiao Li-June 1 AECOM** Date/Time: **3/19/21** Received by/Company: (Signature) **VS PACE HW**

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_

Order Number or **LN# : 92526617**



\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses: \_\_\_\_\_

Lab Profile/Line: \_\_\_\_\_

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact  Y  N  NA
- Custody Signatures Present  Y  N  NA
- Collector Signatures Present  Y  N  NA
- Bottles Intact  Y  N  NA
- Correct Bottles  Y  N  NA
- Sufficient Volume  Y  N  NA
- VOA - Headspace Acceptable  Y  N  NA
- USDA Regulated Solids  Y  N  NA
- Samples in Holding Time  Y  N  NA
- Residual Chlorine Present  Y  N  NA
- CI Strips:  Y  N  NA
- Sample pH Acceptable  Y  N  NA
- pH Strips: **2.32819 AU**  Y  N  NA
- Sulfide Present  Y  N  NA
- Lead Acetate Strips: \_\_\_\_\_  Y  N  NA

LAB USE ONLY:  
 Lab Sample # / Comments: **92526617**

SHORT HOURS PRESENT (<72 hours): Y **(N)** N/A  
 Lab Tracking #: **2618823**  
 Samples received via: **Client** FEDEX UPS  
 Courier: **Pace Courier**  
 Table #: \_\_\_\_\_  
 Acctnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 Date/Time: **3/9/21 1800**  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Temp Blank Received:  Y  N  NA  
 Therm ID#: **927064**  
 Cooler 1 Temp Upon Receipt: **2.70C**  
 Cooler 1 Therm Corr. Factor: **0.00C**  
 Cooler 1 Corrected Temp: **2.70C**

Tip Blank Received:  Y  N  NA  
 HCL MeOH TSP Other

Non Conformance(s): \_\_\_\_\_ Page: \_\_\_\_\_  
 YES / **(NO)** of: \_\_\_\_\_

March 16, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

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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 Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

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 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

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 ANALYTE COUNT

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526618001	MW-03	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618002	MW-07D	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618003	MW-32	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618004	MW-33	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618005	MW-34	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618006	MW-35	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618007	MW-36D	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618008	MW-56	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618009	MW-57	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618010	MW-57D	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618011	EB-1-20210309	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526618012	TRIP BLANK	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

Sample: MW-03	Lab ID: 92526618001	Collected: 03/09/21 15:25	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 12:43	03/12/21 12:43		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 12:43	03/12/21 12:43		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 12:43	03/12/21 12:43	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 12:43	03/12/21 12:43	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.4	%	70.0-130	1	03/12/21 12:43	03/12/21 12:43	615-59-8FID	
2,5-Dibromotoluene (PID)	92.4	%	70.0-130	1	03/12/21 12:43	03/12/21 12:43	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 01:50	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 05:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 05:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 05:28	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 05:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 05:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 05:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 05:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 05:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 05:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 05:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 05:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 05:28	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 05:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 05:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 05:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 05:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 05:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 05:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 05:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 05:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 05:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 05:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 05:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 05:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 05:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 05:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 05:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 05:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 05:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 05:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 05:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 05:28	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-03	Lab ID: 92526618001	Collected: 03/09/21 15:25	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 05:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 05:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 05:28	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 05:28	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 05:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 05:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 05:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 05:28	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 05:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 05:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 05:28	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 05:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 05:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 05:28	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 05:28	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 05:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 05:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 05:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 05:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 05:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 05:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 05:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 05:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 05:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 05:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 05:28	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 05:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 05:28	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		03/11/21 05:28	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/11/21 05:28	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/11/21 05:28	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

Sample: MW-07D	Lab ID: 92526618002	Collected: 03/09/21 13:00	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 13:16	03/12/21 13:16		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 13:16	03/12/21 13:16		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 13:16	03/12/21 13:16	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 13:16	03/12/21 13:16	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	98.0	%	70.0-130	1	03/12/21 13:16	03/12/21 13:16	615-59-8FID	
2,5-Dibromotoluene (PID)	94.8	%	70.0-130	1	03/12/21 13:16	03/12/21 13:16	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 01:54	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 05:46	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 05:46	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 05:46	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 05:46	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 05:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 05:46	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 05:46	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 05:46	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 05:46	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 05:46	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 05:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 05:46	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 05:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 05:46	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 05:46	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 05:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 05:46	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 05:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 05:46	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 05:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 05:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 05:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 05:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 05:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 05:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 05:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 05:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 05:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 05:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 05:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 05:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 05:46	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-07D	Lab ID: 92526618002	Collected: 03/09/21 13:00	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 05:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 05:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 05:46	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 05:46	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 05:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 05:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 05:46	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 05:46	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 05:46	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 05:46	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 05:46	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 05:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 05:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 05:46	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 05:46	127-18-4	
Toluene	<b>0.66</b>	ug/L	0.50	1		03/11/21 05:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 05:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 05:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 05:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 05:46	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 05:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 05:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 05:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 05:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 05:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 05:46	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 05:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 05:46	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/11/21 05:46	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/11/21 05:46	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		03/11/21 05:46	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

Sample: MW-32	Lab ID: 92526618003	Collected: 03/09/21 13:12	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 13:49	03/12/21 13:49		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 13:49	03/12/21 13:49		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 13:49	03/12/21 13:49	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 13:49	03/12/21 13:49	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	93.7	%	70.0-130	1	03/12/21 13:49	03/12/21 13:49	615-59-8FID	
2,5-Dibromotoluene (PID)	90.3	%	70.0-130	1	03/12/21 13:49	03/12/21 13:49	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 01:57	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 06:04	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 06:04	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 06:04	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 06:04	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 06:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 06:04	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:04	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:04	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:04	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 06:04	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 06:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 06:04	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 06:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 06:04	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 06:04	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 06:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 06:04	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 06:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 06:04	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 06:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 06:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 06:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 06:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:04	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-32	Lab ID: 92526618003	Collected: 03/09/21 13:12	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:04	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 06:04	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 06:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 06:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 06:04	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 06:04	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 06:04	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 06:04	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 06:04	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 06:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 06:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 06:04	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 06:04	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 06:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 06:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 06:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 06:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 06:04	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 06:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 06:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 06:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 06:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 06:04	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 06:04	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 06:04	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 06:04	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/11/21 06:04	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		03/11/21 06:04	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		03/11/21 06:04	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

Sample: MW-33	Lab ID: 92526618004	Collected: 03/09/21 15:30	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 14:22	03/12/21 14:22		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 14:22	03/12/21 14:22		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 14:22	03/12/21 14:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 14:22	03/12/21 14:22	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	97.9	%	70.0-130	1	03/12/21 14:22	03/12/21 14:22	615-59-8FID	
2,5-Dibromotoluene (PID)	95.1	%	70.0-130	1	03/12/21 14:22	03/12/21 14:22	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 03:00	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 06:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 06:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 06:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 06:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 06:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 06:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 06:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 06:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 06:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 06:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 06:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 06:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 06:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 06:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 06:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 06:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 06:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 06:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 06:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 06:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:21	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-33	Lab ID: 92526618004	Collected: 03/09/21 15:30	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 06:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 06:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 06:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 06:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 06:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 06:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 06:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 06:21	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 06:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 06:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 06:21	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 06:21	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 06:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 06:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 06:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 06:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 06:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 06:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 06:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 06:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 06:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 06:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 06:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 06:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 06:21	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		03/11/21 06:21	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/11/21 06:21	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		03/11/21 06:21	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

Sample: MW-34	Lab ID: 92526618005	Collected: 03/09/21 13:45	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 14:55	03/12/21 14:55		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 14:55	03/12/21 14:55		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 14:55	03/12/21 14:55	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 14:55	03/12/21 14:55	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	95.5	%	70.0-130	1	03/12/21 14:55	03/12/21 14:55	615-59-8FID	
2,5-Dibromotoluene (PID)	92.0	%	70.0-130	1	03/12/21 14:55	03/12/21 14:55	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 03:04	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 06:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 06:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 06:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 06:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 06:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 06:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 06:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 06:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 06:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 06:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 06:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 06:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 06:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 06:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 06:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 06:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 06:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 06:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 06:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 06:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:39	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-34	Lab ID: 92526618005	Collected: 03/09/21 13:45	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 06:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 06:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 06:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 06:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 06:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 06:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 06:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 06:39	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 06:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 06:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 06:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 06:39	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 06:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 06:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 06:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 06:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 06:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 06:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 06:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 06:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 06:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 06:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 06:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 06:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 06:39	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		03/11/21 06:39	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/11/21 06:39	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		03/11/21 06:39	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

Sample: MW-35	Lab ID: 92526618006	Collected: 03/09/21 16:42	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 15:29	03/12/21 15:29		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 15:29	03/12/21 15:29		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 15:29	03/12/21 15:29	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 15:29	03/12/21 15:29	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.8	%	70.0-130	1	03/12/21 15:29	03/12/21 15:29	615-59-8FID	
2,5-Dibromotoluene (PID)	93.5	%	70.0-130	1	03/12/21 15:29	03/12/21 15:29	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 03:20	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 06:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 06:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 06:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 06:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 06:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 06:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 06:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 06:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 06:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 06:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 06:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 06:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 06:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 06:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 06:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 06:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 06:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 06:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 06:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 06:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 06:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 06:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 06:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 06:57	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-35	Lab ID: 92526618006	Collected: 03/09/21 16:42	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 06:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 06:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 06:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 06:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 06:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 06:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 06:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 06:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 06:57	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 06:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 06:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 06:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 06:57	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 06:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 06:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 06:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 06:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 06:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 06:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 06:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 06:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 06:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 06:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 06:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 06:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 06:57	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		03/11/21 06:57	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1		03/11/21 06:57	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		03/11/21 06:57	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-36D	Lab ID: 92526618007	Collected: 03/09/21 15:20	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 16:02	03/12/21 16:02		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 16:02	03/12/21 16:02		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 16:02	03/12/21 16:02	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 16:02	03/12/21 16:02	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	95.7	%	70.0-130	1	03/12/21 16:02	03/12/21 16:02	615-59-8FID	
2,5-Dibromotoluene (PID)	92.3	%	70.0-130	1	03/12/21 16:02	03/12/21 16:02	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>76.9</b>	ug/L	5.0	1	03/11/21 02:16	03/14/21 03:23	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 01:32	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 01:32	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 01:32	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 01:32	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 01:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 01:32	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 01:32	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 01:32	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 01:32	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 01:32	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 01:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 01:32	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 01:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 01:32	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 01:32	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 01:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 01:32	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 01:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 01:32	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 01:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 01:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 01:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 01:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 01:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 01:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 01:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 01:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 01:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 01:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 01:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 01:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 01:32	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-36D	Lab ID: 92526618007	Collected: 03/09/21 15:20	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 01:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 01:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 01:32	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 01:32	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 01:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 01:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 01:32	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 01:32	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 01:32	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 01:32	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 01:32	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 01:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 01:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 01:32	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 01:32	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 01:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 01:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 01:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 01:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 01:32	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 01:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 01:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 01:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 01:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 01:32	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 01:32	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 01:32	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 01:32	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		03/12/21 01:32	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/12/21 01:32	460-00-4	
Toluene-d8 (S)	87	%	70-130	1		03/12/21 01:32	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-56	Lab ID: 92526618008	Collected: 03/09/21 10:00	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 16:35	03/12/21 16:35		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 16:35	03/12/21 16:35		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 16:35	03/12/21 16:35	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 16:35	03/12/21 16:35	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	98.0	%	70.0-130	1	03/12/21 16:35	03/12/21 16:35	615-59-8FID	
2,5-Dibromotoluene (PID)	94.0	%	70.0-130	1	03/12/21 16:35	03/12/21 16:35	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 03:26	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 01:50	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 01:50	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 01:50	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 01:50	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 01:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 01:50	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 01:50	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 01:50	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 01:50	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 01:50	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 01:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 01:50	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 01:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 01:50	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 01:50	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 01:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 01:50	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 01:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 01:50	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 01:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 01:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 01:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 01:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 01:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 01:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 01:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 01:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 01:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 01:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 01:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 01:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 01:50	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-56	Lab ID: 92526618008	Collected: 03/09/21 10:00	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 01:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 01:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 01:50	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 01:50	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 01:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 01:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 01:50	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 01:50	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 01:50	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 01:50	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 01:50	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 01:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 01:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 01:50	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 01:50	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 01:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 01:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 01:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 01:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 01:50	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 01:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 01:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 01:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 01:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 01:50	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 01:50	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 01:50	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 01:50	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/12/21 01:50	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/12/21 01:50	460-00-4	
Toluene-d8 (S)	92	%	70-130	1		03/12/21 01:50	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

Sample: MW-57	Lab ID: 92526618009	Collected: 03/09/21 11:30	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 17:08	03/12/21 17:08		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 17:08	03/12/21 17:08		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 17:08	03/12/21 17:08	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 17:08	03/12/21 17:08	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.7	%	70.0-130	1	03/12/21 17:08	03/12/21 17:08	615-59-8FID	
2,5-Dibromotoluene (PID)	93.5	%	70.0-130	1	03/12/21 17:08	03/12/21 17:08	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 03:30	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 02:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 02:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 02:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 02:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 02:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 02:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 02:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 02:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 02:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 02:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 02:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 02:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 02:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 02:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 02:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 02:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 02:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 02:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 02:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 02:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 02:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 02:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 02:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 02:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 02:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 02:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 02:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 02:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 02:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 02:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 02:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 02:07	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-57	Lab ID: 92526618009	Collected: 03/09/21 11:30	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 02:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 02:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 02:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 02:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 02:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 02:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 02:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 02:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 02:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 02:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 02:07	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 02:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 02:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 02:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 02:07	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 02:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 02:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 02:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 02:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 02:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 02:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 02:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 02:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 02:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 02:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 02:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 02:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 02:07	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/12/21 02:07	17060-07-0	
4-Bromofluorobenzene (S)	87	%	70-130	1		03/12/21 02:07	460-00-4	
Toluene-d8 (S)	92	%	70-130	1		03/12/21 02:07	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-57D	Lab ID: 92526618010	Collected: 03/09/21 11:30	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 17:41	03/12/21 17:41		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 17:41	03/12/21 17:41		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 17:41	03/12/21 17:41	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 17:41	03/12/21 17:41	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.7	%	70.0-130	1	03/12/21 17:41	03/12/21 17:41	615-59-8FID	
2,5-Dibromotoluene (PID)	93.6	%	70.0-130	1	03/12/21 17:41	03/12/21 17:41	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>8.0</b>	ug/L	5.0	1	03/11/21 02:16	03/14/21 03:33	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 02:25	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 02:25	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 02:25	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 02:25	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 02:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 02:25	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 02:25	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 02:25	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 02:25	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 02:25	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 02:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 02:25	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 02:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 02:25	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 02:25	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 02:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 02:25	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 02:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 02:25	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 02:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 02:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 02:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 02:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 02:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 02:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 02:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 02:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 02:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 02:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 02:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 02:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 02:25	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: MW-57D	Lab ID: 92526618010	Collected: 03/09/21 11:30	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 02:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 02:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 02:25	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 02:25	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 02:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 02:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 02:25	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 02:25	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 02:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 02:25	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 02:25	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 02:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 02:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 02:25	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 02:25	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 02:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 02:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 02:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 02:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 02:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 02:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 02:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 02:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 02:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 02:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 02:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 02:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 02:25	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/12/21 02:25	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		03/12/21 02:25	460-00-4	
Toluene-d8 (S)	92	%	70-130	1		03/12/21 02:25	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: EB-1-20210309	Lab ID: 92526618011	Collected: 03/09/21 16:45	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/12/21 11:37	03/12/21 11:37		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/12/21 11:37	03/12/21 11:37		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/12/21 11:37	03/12/21 11:37	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/12/21 11:37	03/12/21 11:37	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	91.5	%	70.0-130	1	03/12/21 11:37	03/12/21 11:37	615-59-8FID	
2,5-Dibromotoluene (PID)	88.6	%	70.0-130	1	03/12/21 11:37	03/12/21 11:37	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/11/21 02:16	03/14/21 03:36	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 00:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 00:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 00:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 00:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 00:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 00:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 00:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 00:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 00:01	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 00:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 00:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 00:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 00:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 00:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 00:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 00:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 00:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 00:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 00:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 00:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:01	594-20-7	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: EB-1-20210309	Lab ID: 92526618011	Collected: 03/09/21 16:45	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:01	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 00:01	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 00:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 00:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 00:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 00:01	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 00:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 00:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 00:01	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 00:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 00:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 00:01	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 00:01	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 00:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 00:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 00:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 00:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 00:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 00:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 00:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 00:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 00:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 00:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 00:01	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 00:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 00:01	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/12/21 00:01	17060-07-0	
4-Bromofluorobenzene (S)	90	%	70-130	1		03/12/21 00:01	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 00:01	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: TRIP BLANK	Lab ID: 92526618012	Collected: 03/09/21 00:00	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/12/21 00:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 00:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 00:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 00:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 00:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 00:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 00:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 00:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 00:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 00:19	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 00:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 00:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 00:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 00:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 00:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 00:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 00:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 00:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 00:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 00:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 00:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 00:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 00:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 00:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 00:19	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 00:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 00:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 00:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 00:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 00:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 00:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 00:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 00:19	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 00:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 00:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 00:19	79-34-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Sample: <b>TRIP BLANK</b>	Lab ID: <b>92526618012</b>	Collected: 03/09/21 00:00	Received: 03/09/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 00:19	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 00:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 00:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 00:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 00:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 00:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 00:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 00:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 00:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 00:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 00:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 00:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 00:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 00:19	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/12/21 00:19	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/12/21 00:19	460-00-4	
Toluene-d8 (S)	92	%	70-130	1		03/12/21 00:19	2037-26-5	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

QC Batch:	1633636	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92526618001, 92526618002, 92526618003, 92526618004, 92526618005, 92526618006, 92526618007, 92526618008, 92526618009, 92526618010, 92526618011

METHOD BLANK:	R3630856-3	Matrix:	Water
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Associated Lab Samples: 92526618001, 92526618002, 92526618003, 92526618004, 92526618005, 92526618006, 92526618007, 92526618008, 92526618009, 92526618010, 92526618011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/12/21 08:56	
Aliphatic (C09-C12)	ug/L	ND	100	03/12/21 08:56	
Aromatic (C09-C10), Unadjusted	ug/L	ND	100	03/12/21 08:56	
Total VPH	ug/L	ND	100	03/12/21 08:56	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	03/12/21 08:56	
2,5-Dibromotoluene (PID)	%	90.8	70.0-130	03/12/21 08:56	

Parameter	Units	R3630856-1		R3630856-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
Aliphatic (C05-C08)	ug/L	1200	1310	1300	109	108	70.0-130	0.766	25
Aliphatic (C09-C12)	ug/L	1400	1660	1640	119	117	70.0-130	1.21	25
Aromatic (C09-C10), Unadjusted	ug/L	200	229	226	115	113	70.0-130	1.32	25
Total VPH	ug/L	2800	3200	3170	114	113	70.0-130	0.942	25
2,5-Dibromotoluene (FID)	%				94.3	99.6	70.0-130		
2,5-Dibromotoluene (PID)	%				93.2	97.1	70.0-130		

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

QC Batch: 605753 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92526618001, 92526618002, 92526618003, 92526618004, 92526618005, 92526618006, 92526618007, 92526618008, 92526618009, 92526618010, 92526618011

METHOD BLANK: 3191500 Matrix: Water  
Associated Lab Samples: 92526618001, 92526618002, 92526618003, 92526618004, 92526618005, 92526618006, 92526618007, 92526618008, 92526618009, 92526618010, 92526618011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/14/21 01:04	

LABORATORY CONTROL SAMPLE: 3191501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	460	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3191502 3191503

Parameter	92525449001 Units	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	466	473	93	95	75-125	1

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

QC Batch: 605647 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526618001, 92526618002, 92526618003, 92526618004, 92526618005, 92526618006

METHOD BLANK: 3190948 Matrix: Water

Associated Lab Samples: 92526618001, 92526618002, 92526618003, 92526618004, 92526618005, 92526618006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 00:25	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 00:25	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 00:25	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 00:25	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 00:25	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 00:25	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 00:25	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 00:25	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 00:25	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 00:25	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 00:25	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 00:25	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 00:25	
Benzene	ug/L	ND	0.50	03/11/21 00:25	
Bromobenzene	ug/L	ND	0.50	03/11/21 00:25	
Bromochloromethane	ug/L	ND	0.50	03/11/21 00:25	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 00:25	
Bromoform	ug/L	ND	0.50	03/11/21 00:25	
Bromomethane	ug/L	ND	5.0	03/11/21 00:25	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 00:25	
Chlorobenzene	ug/L	ND	0.50	03/11/21 00:25	
Chloroethane	ug/L	ND	1.0	03/11/21 00:25	
Chloroform	ug/L	ND	0.50	03/11/21 00:25	
Chloromethane	ug/L	ND	1.0	03/11/21 00:25	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 00:25	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 00:25	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 00:25	
Dibromomethane	ug/L	ND	0.50	03/11/21 00:25	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 00:25	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 00:25	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

METHOD BLANK: 3190948

Matrix: Water

Associated Lab Samples: 92526618001, 92526618002, 92526618003, 92526618004, 92526618005, 92526618006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 00:25	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 00:25	
m&p-Xylene	ug/L	ND	1.0	03/11/21 00:25	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 00:25	
Methylene Chloride	ug/L	ND	2.0	03/11/21 00:25	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 00:25	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Naphthalene	ug/L	ND	2.0	03/11/21 00:25	
o-Xylene	ug/L	ND	0.50	03/11/21 00:25	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Styrene	ug/L	ND	0.50	03/11/21 00:25	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 00:25	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 00:25	
Toluene	ug/L	ND	0.50	03/11/21 00:25	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 00:25	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 00:25	
Trichloroethene	ug/L	ND	0.50	03/11/21 00:25	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 00:25	
Vinyl chloride	ug/L	ND	1.0	03/11/21 00:25	
1,2-Dichloroethane-d4 (S)	%	101	70-130	03/11/21 00:25	
4-Bromofluorobenzene (S)	%	105	70-130	03/11/21 00:25	
Toluene-d8 (S)	%	104	70-130	03/11/21 00:25	

LABORATORY CONTROL SAMPLE: 3190949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.3	99	60-140	
1,1,1-Trichloroethane	ug/L	50	50.7	101	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	60-140	
1,1,2-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1-Dichloroethane	ug/L	50	50.4	101	60-140	
1,1-Dichloroethene	ug/L	50	51.3	103	60-140	
1,1-Dichloropropene	ug/L	50	53.3	107	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.8	96	60-140	
1,2,3-Trichloropropane	ug/L	50	48.1	96	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.9	98	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.9	92	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	60-140	
1,2-Dichlorobenzene	ug/L	50	45.3	91	60-140	
1,2-Dichloroethane	ug/L	50	51.2	102	60-140	
1,2-Dichloropropane	ug/L	50	48.9	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	45.7	91	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

LABORATORY CONTROL SAMPLE: 3190949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.8	94	60-140	
1,3-Dichloropropane	ug/L	50	47.1	94	60-140	
1,4-Dichlorobenzene	ug/L	50	45.1	90	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	44.9	90	60-140	
4-Chlorotoluene	ug/L	50	44.7	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	43.9	88	60-140	
Bromochloromethane	ug/L	50	53.9	108	60-140	
Bromodichloromethane	ug/L	50	50.5	101	60-140	
Bromoform	ug/L	50	40.4	81	60-140	
Bromomethane	ug/L	50	55.5	111	60-140	
Carbon tetrachloride	ug/L	50	50.3	101	60-140	
Chlorobenzene	ug/L	50	45.6	91	60-140	
Chloroethane	ug/L	50	45.7	91	60-140	
Chloroform	ug/L	50	50.0	100	60-140	
Chloromethane	ug/L	50	40.2	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.4	97	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	50.2	100	60-140	
Dibromomethane	ug/L	50	51.7	103	60-140	
Dichlorodifluoromethane	ug/L	50	45.3	91	60-140	
Diisopropyl ether	ug/L	50	48.2	96	60-140	
Ethylbenzene	ug/L	50	45.8	92	60-140	
Hexachloro-1,3-butadiene	ug/L	50	46.6	93	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.2	94	60-140	
m&p-Xylene	ug/L	100	91.5	91	60-140	
Methyl-tert-butyl ether	ug/L	50	51.8	104	60-140	
Methylene Chloride	ug/L	50	45.5	91	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	44.7	89	60-140	
Naphthalene	ug/L	50	48.8	98	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	46.3	93	60-140	
Styrene	ug/L	50	46.4	93	60-140	
tert-Butylbenzene	ug/L	50	37.2	74	60-140	
Tetrachloroethene	ug/L	50	45.7	91	60-140	
Toluene	ug/L	50	48.5	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	49.5	99	60-140	
Trichlorofluoromethane	ug/L	50	46.0	92	60-140	
Vinyl chloride	ug/L	50	43.2	86	60-140	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

Parameter	92525844002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
1,1,1,2-Tetrachloroethane	ug/L	<12.4	800	800	871	890	109	111	60-140	2				
1,1,1-Trichloroethane	ug/L	<13.3	800	800	1020	1100	128	137	60-140	7				
1,1,2,2-Tetrachloroethane	ug/L	<9.0	800	800	875	928	109	116	60-140	6				
1,1,2-Trichloroethane	ug/L	<13.0	800	800	995	1020	124	127	60-140	2				
1,1-Dichloroethane	ug/L	<14.7	800	800	1020	1030	127	129	60-140	2				
1,1-Dichloroethene	ug/L	<13.9	800	800	1080	1100	135	137	60-140	2				
1,1-Dichloropropene	ug/L	<17.1	800	800	1060	1070	132	134	60-140	2				
1,2,3-Trichlorobenzene	ug/L	<32.2	800	800	814	861	102	108	60-140	6				
1,2,3-Trichloropropane	ug/L	<10.4	800	800	925	925	116	116	60-140	0				
1,2,4-Trichlorobenzene	ug/L	<25.6	800	800	868	832	108	104	60-140	4				
1,2,4-Trimethylbenzene	ug/L	6760	800	800	7410	7020	82	33	60-140	5	M1			
1,2-Dibromo-3-chloropropane	ug/L	<13.6	800	800	857	900	107	113	60-140	5				
1,2-Dibromoethane (EDB)	ug/L	<10.9	800	800	889	908	111	113	60-140	2				
1,2-Dichlorobenzene	ug/L	<13.6	800	800	887	850	111	106	60-140	4				
1,2-Dichloroethane	ug/L	<12.9	800	800	985	1030	123	128	60-140	4				
1,2-Dichloropropane	ug/L	<14.2	800	800	1000	984	125	123	60-140	2				
1,3,5-Trimethylbenzene	ug/L	1950	800	800	2790	2650	105	87	60-140	5				
1,3-Dichlorobenzene	ug/L	<13.6	800	800	858	848	107	106	60-140	1				
1,3-Dichloropropane	ug/L	<11.4	800	800	874	890	109	111	60-140	2				
1,4-Dichlorobenzene	ug/L	<13.3	800	800	828	842	104	105	60-140	2				
2,2-Dichloropropane	ug/L	<15.5	800	800	884	901	110	113	60-140	2				
2-Chlorotoluene	ug/L	<12.8	800	800	945	907	118	113	60-140	4				
4-Chlorotoluene	ug/L	<13.0	800	800	843	841	105	105	60-140	0				
Benzene	ug/L	715	800	800	1710	1740	124	128	60-140	2				
Bromobenzene	ug/L	<11.6	800	800	864	858	108	107	60-140	1				
Bromochloromethane	ug/L	<18.7	800	800	1030	1060	128	133	60-140	3				
Bromodichloromethane	ug/L	<12.3	800	800	989	996	124	124	60-140	1				
Bromoform	ug/L	<13.6	800	800	721	737	90	92	60-140	2				
Bromomethane	ug/L	<66.4	800	800	846	765	106	96	60-140	10				
Carbon tetrachloride	ug/L	<13.3	800	800	1020	1030	127	129	60-140	1				
Chlorobenzene	ug/L	<11.4	800	800	876	891	109	111	60-140	2				
Chloroethane	ug/L	<26.0	800	800	1070	1010	134	126	60-140	6				
Chloroform	ug/L	<14.1	800	800	1010	1060	126	133	60-140	5				
Chloromethane	ug/L	<21.6	800	800	796	804	99	100	60-140	1				
cis-1,2-Dichloroethene	ug/L	<15.4	800	800	953	991	119	124	60-140	4				
cis-1,3-Dichloropropene	ug/L	<14.6	800	800	950	984	119	123	60-140	4				
Dibromochloromethane	ug/L	<14.4	800	800	867	873	108	109	60-140	1				
Dibromomethane	ug/L	<15.8	800	800	968	1020	121	128	60-140	6				
Dichlorodifluoromethane	ug/L	<13.8	800	800	987	1030	123	129	60-140	4				
Diisopropyl ether	ug/L	<12.3	800	800	923	940	115	118	60-140	2				
Ethylbenzene	ug/L	3730	800	800	4480	4530	94	99	60-140	1				
Hexachloro-1,3-butadiene	ug/L	<61.2	800	800	781	779	98	97	60-140	0				
Isopropylbenzene (Cumene)	ug/L	348	800	800	1220	1210	109	108	60-140	1				
m&p-Xylene	ug/L	12000	1600	1600	13200	13200	76	79	60-140	0				
Methyl-tert-butyl ether	ug/L	<16.9	800	800	998	1030	125	129	60-140	3				
Methylene Chloride	ug/L	<78.0	800	800	915	940	114	118	60-140	3				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

Parameter	92525844002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
n-Butylbenzene	ug/L	272	800	800	1350	1280	135	126	60-140	6				
n-Propylbenzene	ug/L	<13.6	800	800	1950	1880	244	235	60-140	4	M1			
Naphthalene	ug/L	693	800	800	1500	1540	101	106	60-140	3				
o-Xylene	ug/L	1600	800	800	2430	2480	104	110	60-140	2				
sec-Butylbenzene	ug/L	<16.0	800	800	933	945	117	118	60-140	1				
Styrene	ug/L	<11.7	800	800	847	873	106	109	60-140	3				
tert-Butylbenzene	ug/L	<12.9	800	800	706	725	88	91	60-140	3				
Tetrachloroethene	ug/L	<11.7	800	800	848	883	106	110	60-140	4				
Toluene	ug/L	191	800	800	1180	1190	123	125	60-140	1				
trans-1,2-Dichloroethene	ug/L	<15.8	800	800	1000	1030	125	129	60-140	3				
trans-1,3-Dichloropropene	ug/L	<14.5	800	800	923	926	115	116	60-140	0				
Trichloroethene	ug/L	<15.3	800	800	985	1000	123	125	60-140	2				
Trichlorofluoromethane	ug/L	<11.9	800	800	1010	1010	127	126	60-140	0				
Vinyl chloride	ug/L	<15.4	800	800	915	926	114	116	60-140	1				
1,2-Dichloroethane-d4 (S)	%						98	105	70-130					
4-Bromofluorobenzene (S)	%						100	100	70-130					
Toluene-d8 (S)	%						102	102	70-130					

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

QC Batch: 605982 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526618007, 92526618008, 92526618009, 92526618010, 92526618011, 92526618012

METHOD BLANK: 3192559 Matrix: Water

Associated Lab Samples: 92526618007, 92526618008, 92526618009, 92526618010, 92526618011, 92526618012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
Benzene	ug/L	ND	0.50	03/11/21 23:07	
Bromobenzene	ug/L	ND	0.50	03/11/21 23:07	
Bromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromoform	ug/L	ND	0.50	03/11/21 23:07	
Bromomethane	ug/L	ND	5.0	03/11/21 23:07	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 23:07	
Chlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
Chloroethane	ug/L	ND	1.0	03/11/21 23:07	
Chloroform	ug/L	ND	0.50	03/11/21 23:07	
Chloromethane	ug/L	ND	1.0	03/11/21 23:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Dibromomethane	ug/L	ND	0.50	03/11/21 23:07	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 23:07	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 23:07	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)  
Pace Project No.: 92526618

METHOD BLANK: 3192559 Matrix: Water  
Associated Lab Samples: 92526618007, 92526618008, 92526618009, 92526618010, 92526618011, 92526618012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 23:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 23:07	
m&p-Xylene	ug/L	ND	1.0	03/11/21 23:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 23:07	
Methylene Chloride	ug/L	ND	2.0	03/11/21 23:07	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Naphthalene	ug/L	ND	2.0	03/11/21 23:07	
o-Xylene	ug/L	ND	0.50	03/11/21 23:07	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Styrene	ug/L	ND	0.50	03/11/21 23:07	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 23:07	
Toluene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Trichloroethene	ug/L	ND	0.50	03/11/21 23:07	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 23:07	
Vinyl chloride	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/11/21 23:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/11/21 23:07	
Toluene-d8 (S)	%	100	70-130	03/11/21 23:07	

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	60-140	
1,1,1-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,2-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	46.5	93	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	46.6	93	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.9	88	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane	ug/L	50	46.7	93	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.3	93	60-140	
1,3-Dichloropropane	ug/L	50	48.1	96	60-140	
1,4-Dichlorobenzene	ug/L	50	44.5	89	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	47.5	95	60-140	
4-Chlorotoluene	ug/L	50	44.3	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	49.5	99	60-140	
Bromochloromethane	ug/L	50	51.3	103	60-140	
Bromodichloromethane	ug/L	50	46.9	94	60-140	
Bromoform	ug/L	50	47.7	95	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	54.3	109	60-140	
Chlorobenzene	ug/L	50	47.5	95	60-140	
Chloroethane	ug/L	50	44.7	89	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	37.6	75	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	60-140	
Dibromochloromethane	ug/L	50	53.7	107	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	45.8	92	60-140	
Ethylbenzene	ug/L	50	45.5	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	60-140	
m&p-Xylene	ug/L	100	94.1	94	60-140	
Methyl-tert-butyl ether	ug/L	50	49.0	98	60-140	
Methylene Chloride	ug/L	50	45.2	90	60-140	
n-Butylbenzene	ug/L	50	42.1	84	60-140	
n-Propylbenzene	ug/L	50	44.4	89	60-140	
Naphthalene	ug/L	50	46.8	94	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	42.4	85	60-140	
Styrene	ug/L	50	48.8	98	60-140	
tert-Butylbenzene	ug/L	50	38.0	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	48.6	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	60-140	
Trichloroethene	ug/L	50	49.8	100	60-140	
Trichlorofluoromethane	ug/L	50	43.6	87	60-140	
Vinyl chloride	ug/L	50	40.1	80	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			106	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Parameter	92526257003		MS	MSD	3192561		3192562		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	441	426	110	106	60-140	3			
1,1,1-Trichloroethane	ug/L	ND	400	400	439	437	110	109	60-140	0			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	420	400	105	100	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	400	400	427	400	107	100	60-140	6			
1,1-Dichloroethane	ug/L	ND	400	400	421	425	105	106	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	481	456	120	114	60-140	5			
1,1-Dichloropropene	ug/L	ND	400	400	416	421	104	105	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	327	356	82	89	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	400	400	394	378	99	95	60-140	4			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	346	361	86	90	60-140	4			
1,2,4-Trimethylbenzene	ug/L	148	400	400	537	531	97	96	60-140	1			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	424	409	106	102	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	449	416	112	104	60-140	8			
1,2-Dichlorobenzene	ug/L	ND	400	400	391	392	98	98	60-140	0			
1,2-Dichloroethane	ug/L	ND	400	400	402	411	101	103	60-140	2			
1,2-Dichloropropane	ug/L	ND	400	400	469	427	117	107	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	432	413	108	103	60-140	4			
1,3-Dichlorobenzene	ug/L	ND	400	400	410	401	103	100	60-140	2			
1,3-Dichloropropane	ug/L	ND	400	400	417	425	104	106	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	400	400	383	380	96	95	60-140	1			
2,2-Dichloropropane	ug/L	ND	400	400	355	358	89	89	60-140	1			
2-Chlorotoluene	ug/L	ND	400	400	411	417	103	104	60-140	1			
4-Chlorotoluene	ug/L	ND	400	400	399	382	100	96	60-140	4			
Benzene	ug/L	2140	400	400	2580	2600	111	114	60-140	1			
Bromobenzene	ug/L	ND	400	400	435	417	109	104	60-140	4			
Bromochloromethane	ug/L	ND	400	400	436	412	109	103	60-140	6			
Bromodichloromethane	ug/L	ND	400	400	419	405	105	101	60-140	4			
Bromoform	ug/L	ND	400	400	381	362	95	91	60-140	5			
Bromomethane	ug/L	ND	400	400	466	515	117	129	60-140	10			
Carbon tetrachloride	ug/L	ND	400	400	449	434	112	108	60-140	4			
Chlorobenzene	ug/L	ND	400	400	441	427	110	107	60-140	3			
Chloroethane	ug/L	ND	400	400	405	390	101	98	60-140	4			
Chloroform	ug/L	ND	400	400	438	424	109	106	60-140	3			
Chloromethane	ug/L	ND	400	400	366	367	92	92	60-140	0			
cis-1,2-Dichloroethene	ug/L	ND	400	400	406	409	101	102	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	433	421	108	105	60-140	3			
Dibromochloromethane	ug/L	ND	400	400	442	426	110	106	60-140	4			
Dibromomethane	ug/L	ND	400	400	442	444	110	111	60-140	1			
Dichlorodifluoromethane	ug/L	ND	400	400	404	390	101	97	60-140	4			
Diisopropyl ether	ug/L	227	400	400	627	627	100	100	60-140	0			
Ethylbenzene	ug/L	151	400	400	579	569	107	105	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	384	395	96	99	60-140	3			
Isopropylbenzene (Cumene)	ug/L	ND	400	400	429	410	107	103	60-140	5			
m&p-Xylene	ug/L	838	800	800	1750	1730	115	112	60-140	1			
Methyl-tert-butyl ether	ug/L	65.7	400	400	477	466	103	100	60-140	2			
Methylene Chloride	ug/L	ND	400	400	414	407	98	96	60-140	2			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Parameter	92526257003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	369	356	92	89	60-140	4				
n-Propylbenzene	ug/L	ND	400	400	413	396	103	99	60-140	4				
Naphthalene	ug/L	155	400	400	394	411	60	64	60-140	4				
o-Xylene	ug/L	465	400	400	915	910	113	111	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	408	389	102	97	60-140	5				
Styrene	ug/L	ND	400	400	424	411	106	103	60-140	3				
tert-Butylbenzene	ug/L	ND	400	400	367	349	92	87	60-140	5				
Tetrachloroethene	ug/L	ND	400	400	421	414	105	104	60-140	2				
Toluene	ug/L	2440	400	400	2870	2880	109	109	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	400	400	424	418	106	104	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	400	400	417	413	104	103	60-140	1				
Trichloroethene	ug/L	ND	400	400	451	427	113	107	60-140	6				
Trichlorofluoromethane	ug/L	ND	400	400	446	440	112	110	60-140	1				
Vinyl chloride	ug/L	ND	400	400	405	404	101	101	60-140	0				
1,2-Dichloroethane-d4 (S)	%						98	97	70-130					
4-Bromofluorobenzene (S)	%						99	99	70-130					
Toluene-d8 (S)	%						99	97	70-130					

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: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

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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.

### ANALYTE QUALIFIERS

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/9/21)

Pace Project No.: 92526618

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526618001	MW-03	MADEPV	1633636	MADEP VPH	1633636
92526618002	MW-07D	MADEPV	1633636	MADEP VPH	1633636
92526618003	MW-32	MADEPV	1633636	MADEP VPH	1633636
92526618004	MW-33	MADEPV	1633636	MADEP VPH	1633636
92526618005	MW-34	MADEPV	1633636	MADEP VPH	1633636
92526618006	MW-35	MADEPV	1633636	MADEP VPH	1633636
92526618007	MW-36D	MADEPV	1633636	MADEP VPH	1633636
92526618008	MW-56	MADEPV	1633636	MADEP VPH	1633636
92526618009	MW-57	MADEPV	1633636	MADEP VPH	1633636
92526618010	MW-57D	MADEPV	1633636	MADEP VPH	1633636
92526618011	EB-1-20210309	MADEPV	1633636	MADEP VPH	1633636
92526618001	MW-03	EPA 3010A	605753	EPA 6010D	605769
92526618002	MW-07D	EPA 3010A	605753	EPA 6010D	605769
92526618003	MW-32	EPA 3010A	605753	EPA 6010D	605769
92526618004	MW-33	EPA 3010A	605753	EPA 6010D	605769
92526618005	MW-34	EPA 3010A	605753	EPA 6010D	605769
92526618006	MW-35	EPA 3010A	605753	EPA 6010D	605769
92526618007	MW-36D	EPA 3010A	605753	EPA 6010D	605769
92526618008	MW-56	EPA 3010A	605753	EPA 6010D	605769
92526618009	MW-57	EPA 3010A	605753	EPA 6010D	605769
92526618010	MW-57D	EPA 3010A	605753	EPA 6010D	605769
92526618011	EB-1-20210309	EPA 3010A	605753	EPA 6010D	605769
92526618001	MW-03	SM 6200B	605647		
92526618002	MW-07D	SM 6200B	605647		
92526618003	MW-32	SM 6200B	605647		
92526618004	MW-33	SM 6200B	605647		
92526618005	MW-34	SM 6200B	605647		
92526618006	MW-35	SM 6200B	605647		
92526618007	MW-36D	SM 6200B	605982		
92526618008	MW-56	SM 6200B	605982		
92526618009	MW-57	SM 6200B	605982		
92526618010	MW-57D	SM 6200B	605982		
92526618011	EB-1-20210309	SM 6200B	605982		
92526618012	TRIP BLANK	SM 6200B	605982		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM**

Billing Information:

Address: **1000 PARKVIEW ZA, SUITE 200  
CHARLOTTE, NC 28215**

LAB #

MO# : 92526618

Number of

Report To: **Andrew Wineschmig**

Conte: **3 3 1**

92526618

Customer Project Name/Number: **Colonial Pipeline**

State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Lab Profile/Line:

Phone: / Email: / Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No

Lab Sample Receipt Checklist:

Customer Seal Present/Intact Y  N  NA

Collected By (print): / Purchase Order #: / DW PWS ID #: / DW Location Code: / Immediately Packed on Ice: [ ] Yes [ ] No

Custody Signatures Present Y  N  NA

Collector Signature Present Y  N  NA

Collected By (signature): / Turnaround Date Required: / Field Filtered (if applicable): [ ] Yes [ ] No

Bottles Intact Y  N  NA

Correct Bottles Y  N  NA

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day [ ] Hold: (Expedite Charges Apply)

Sufficient Volume Y  N  NA

Samples Received on Ice Y  N  NA

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SU), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

VOA - Headspace Acceptable Y  N  NA

USDA Regulated Solids Y  N  NA

Customer Sample ID: **MW-03** Matrix: **WT** Comp/Grab: **G** Collected (or Composite Start) Date: **3/9/21** Composite End Date: **15/25** Res Cl: **B** # of Cms: **8**

Residual Chlorine Present Y  N  NA

CI Strips: **Acceptable** Y  N  NA

**MW-03D** Matrix: **WT** Comp/Grab: **G** Collected (or Composite Start) Date: **3/9/21** Composite End Date: **15/25** Res Cl: **B** # of Cms: **8**

Sample pH Acceptable Y  N  NA

pH Strips: **2.5/3.5/4.0** Y  N  NA

**MW-32** Matrix: **WT** Comp/Grab: **G** Collected (or Composite Start) Date: **3/9/21** Composite End Date: **15/25** Res Cl: **B** # of Cms: **8**

Lead Acetate Strips: **Y N NA**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

**MW-33** Matrix: **WT** Comp/Grab: **G** Collected (or Composite Start) Date: **3/9/21** Composite End Date: **15/25** Res Cl: **B** # of Cms: **8**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

**MW-34** Matrix: **WT** Comp/Grab: **G** Collected (or Composite Start) Date: **3/9/21** Composite End Date: **15/25** Res Cl: **B** # of Cms: **8**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

**MW-35** Matrix: **WT** Comp/Grab: **G** Collected (or Composite Start) Date: **3/9/21** Composite End Date: **15/25** Res Cl: **B** # of Cms: **8**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

**MW-36D** Matrix: **WT** Comp/Grab: **G** Collected (or Composite Start) Date: **3/9/21** Composite End Date: **15/25** Res Cl: **B** # of Cms: **8**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

**MW-56** Matrix: **WT** Comp/Grab: **G** Collected (or Composite Start) Date: **3/9/21** Composite End Date: **15/25** Res Cl: **B** # of Cms: **8**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

**MW-57** Matrix: **WT** Comp/Grab: **G** Collected (or Composite Start) Date: **3/9/21** Composite End Date: **15/25** Res Cl: **B** # of Cms: **8**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

**MW-57D** Matrix: **WT** Comp/Grab: **G** Collected (or Composite Start) Date: **3/9/21** Composite End Date: **15/25** Res Cl: **B** # of Cms: **8**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

LAB USE ONLY: Lab Sample # / Comments: **92526618**

Customer Remarks / Special Conditions / Possible Hazards: **None**

Type of Ice Used: **Met** Blue Dry None

Packing Material Used: **None**

Radchem sample(s) screened (<500 cpm): Y N **NA**

Relinquished by/Company: (Signature) **Emily R Stone / AECOM** Date/Time: **3/9/21** Received by/Company: (Signature) **MDG Bee HWL** Date/Time: **3/9/21 18:00**

Relinquished by/Company: (Signature) **MDG Bee HWL** Date/Time: **3/9/21 18:00**

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Lab Tracking #: **2618822**

Short Holds Present (<72 hours): Y  N  NA

Temp Blank Received: Y  N  NA

Therm ID#: **21064**

Cooler 1 Temp Upon Receipt: **34** oc

Cooler 1 Temp Corr. Factor: **0.2** oc

Cooler 1 Corrected Temp: **34** oc

Comments: **None**

Non Conformance(s): YES / NO Page: **1** of: **2**



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM**  
Address: **6000 FANNING RD, SUITE 200  
MARIETTA, GA 30067**

Billing Information:  
Report To: **Andrew Wreschmlyg**  
Email To: **Andrew.Wreschmlyg@aecom.com**  
Site Collection Info/Address:

Customer Project Name/Number: **Colonial Pipeline**

State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone: /  
Email: /  
Collected By (print):  
Collected By (signature):

Site/Facility ID #: /  
Purchase Order #: /  
Quote #: /  
Turnaround Date Required: /

Sample Disposal:  
[ ] Dispose as appropriate [ ] Return  
[ ] Archive: [ ]  
[ ] Hold: [ ]

Rush: [ ] Same Day [ ] Next Day  
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
(Expedite Charges Apply)

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Field Filtered (if applicable): [ ] Yes [ ] No  
Analysis: /

Customer Sample ID: **EB-1-20210301**

Matrix: **WT** Comp / Grab: **G**

Collected (or Composite Start) Date: **3/9/21**

Composite End Date: **1/4/5**

Res CI: **B**

# of Chms: **X**

Lab Tracking #: **2618821**

Lab Sample Temperature Info: **Temp Blank Received: Y NA  
Therm ID#: 127003  
Cooler 1 Temp Upon Receipt: 3.4 OC  
Cooler 1 Therm Corr. Factor: 0 OC  
Cooler 1 Corrected Temp: 3.4 OC**

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None  
Packing Material Used: /  
Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature) **MDG PACE**

Date/Time: **3/9/21**

Received by/Company: (Signature)

Date/Time: **3-9-21 18:00**

Received by/Company: (Signature)

Date/Time: /

LAB USE  
**NO# : 92526618**  
PM: NMG Due Date: 03/16/21  
CLIENT: 92-AECOM CHR

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses: /

Lab Profile/Line: /

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y  NA  
Custody Signatures Present Y  NA  
Collector Signatures Present Y  NA  
Bottles Intact Y  NA  
Correct Bottles Y  NA  
Sufficient Volume Y  NA  
Samples Received on Ice Y  NA  
VOA - Headspace Acceptable Y  NA  
USDA Regulated Solids Y  NA  
Samples in Holding Time Y  NA  
Residual Chlorine Present Y  NA  
Cl Strips: Y  NA  
Sample pH acceptable Y  NA  
pH Strips: **2.58/5.40** Y  NA  
Sulfide Present Y  NA  
Lead Acetate Strips: Y  NA

LAB USE ONLY:  
Lab Sample # / Comments: **92526618**

Lab Sample # / Comments: **ORL**

Lab Sample # / Comments: /

March 17, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

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### Pace Analytical Services National

<p>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</p>	<p>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 Certification #: T 104704245-17-14 Texas Mold Certification #: LAB0152 USDA Soil Permit #: P330-15-00234 Utah Certification #: TN00003 Virginia Certification #: VT2006 Vermont Dept. of Health: ID# VT-2006 Virginia Certification #: 460132 Washington Certification #: C847 West Virginia Certification #: 233 Wisconsin Certification #: 998093910 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</p>
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### Pace Analytical Services Charlotte

<p>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</p>	<p>South Carolina Certification #: 99006001 Florida/NELAP Certification #: E87627 Kentucky UST Certification #: 84 Virginia/VELAP Certification #: 460221</p>
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### Pace Analytical Services Asheville

<p>2225 Riverside Drive, Asheville, NC 28804 Florida/NELAP Certification #: E87648 North Carolina Drinking Water Certification #: 37712</p>	<p>North Carolina Wastewater Certification #: 40 South Carolina Certification #: 99030001 Virginia/VELAP Certification #: 460222</p>
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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526977001	MW-05	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977002	MW-07	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977003	MW-20	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977004	MW-25	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977005	MW-25D	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977006	MW-27	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977007	MW-36	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977008	MW-38	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977009	MW-53	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977010	MW-61D	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977011	MW-59D	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977012	MW-63	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977013	MW-72	MADEP VPH	ACG	6	PAN

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526977014	EB-1-20210310	EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
		MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
92526977015	DUP-1-20210310	SM 6200B	SAS	63	PASI-C
		MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526977016	Trip Blank	SM 6200B	SAS	63	PASI-C
92526977017	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Sample: MW-05	Lab ID: 92526977001	Collected: 03/10/21 14:25	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 15:54	03/13/21 15:54		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 15:54	03/13/21 15:54		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 15:54	03/13/21 15:54	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 15:54	03/13/21 15:54	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	84.5	%	70.0-130	1	03/13/21 15:54	03/13/21 15:54	615-59-8FID	
2,5-Dibromotoluene (PID)	87.4	%	70.0-130	1	03/13/21 15:54	03/13/21 15:54	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 14:26	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 13:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 13:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 13:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 13:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 13:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 13:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 13:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 13:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 13:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 13:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 13:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 13:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 13:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 13:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 13:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 13:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 13:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 13:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 13:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 13:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 13:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 13:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 13:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 13:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 13:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 13:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 13:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 13:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 13:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 13:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 13:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 13:37	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-05	Lab ID: 92526977001	Collected: 03/10/21 14:25	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 13:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 13:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 13:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 13:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 13:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 13:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 13:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 13:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 13:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 13:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 13:37	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 13:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 13:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 13:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 13:37	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 13:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 13:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 13:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 13:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 13:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 13:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 13:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 13:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 13:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 13:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 13:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 13:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 13:37	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/12/21 13:37	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/12/21 13:37	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/12/21 13:37	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-07	Lab ID: 92526977002	Collected: 03/10/21 10:55	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 16:27	03/13/21 16:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 16:27	03/13/21 16:27		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 16:27	03/13/21 16:27	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 16:27	03/13/21 16:27	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	85.1	%	70.0-130	1	03/13/21 16:27	03/13/21 16:27	615-59-8FID	
2,5-Dibromotoluene (PID)	87.7	%	70.0-130	1	03/13/21 16:27	03/13/21 16:27	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 14:30	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 13:54	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 13:54	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 13:54	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 13:54	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 13:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 13:54	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 13:54	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 13:54	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 13:54	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 13:54	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 13:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 13:54	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 13:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 13:54	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 13:54	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 13:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 13:54	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 13:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 13:54	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 13:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 13:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 13:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 13:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 13:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 13:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 13:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 13:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 13:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 13:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 13:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 13:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 13:54	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-07		Lab ID: 92526977002		Collected: 03/10/21 10:55	Received: 03/10/21 18:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 13:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 13:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 13:54	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 13:54	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 13:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 13:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 13:54	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 13:54	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 13:54	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 13:54	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 13:54	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 13:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 13:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 13:54	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 13:54	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 13:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 13:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 13:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 13:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 13:54	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 13:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 13:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 13:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 13:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 13:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 13:54	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 13:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 13:54	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/12/21 13:54	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/12/21 13:54	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/12/21 13:54	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Sample: MW-20	Lab ID: 92526977003	Collected: 03/10/21 13:13	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/16/21 02:02	03/16/21 02:02		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/16/21 02:02	03/16/21 02:02		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/16/21 02:02	03/16/21 02:02	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/16/21 02:02	03/16/21 02:02	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	93.1	%	70.0-130	1	03/16/21 02:02	03/16/21 02:02	615-59-8FID	
2,5-Dibromotoluene (PID)	87.1	%	70.0-130	1	03/16/21 02:02	03/16/21 02:02	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 14:33	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 14:12	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 14:12	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 14:12	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 14:12	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 14:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 14:12	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 14:12	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 14:12	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 14:12	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 14:12	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 14:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 14:12	75-00-3	
Chloroform	2.0	ug/L	0.50	1		03/12/21 14:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 14:12	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 14:12	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 14:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 14:12	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 14:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 14:12	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 14:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 14:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 14:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 14:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 14:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 14:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 14:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 14:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 14:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 14:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 14:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 14:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 14:12	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-20	Lab ID: 92526977003	Collected: 03/10/21 13:13	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 14:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 14:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 14:12	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 14:12	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 14:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 14:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 14:12	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 14:12	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 14:12	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 14:12	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 14:12	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 14:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 14:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 14:12	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 14:12	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 14:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 14:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 14:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 14:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 14:12	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 14:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 14:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 14:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 14:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 14:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 14:12	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 14:12	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 14:12	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/12/21 14:12	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/12/21 14:12	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 14:12	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-25	Lab ID: 92526977004	Collected: 03/10/21 14:21	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 17:34	03/13/21 17:34		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 17:34	03/13/21 17:34		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 17:34	03/13/21 17:34	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 17:34	03/13/21 17:34	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	85.8	%	70.0-130	1	03/13/21 17:34	03/13/21 17:34	615-59-8FID	
2,5-Dibromotoluene (PID)	87.4	%	70.0-130	1	03/13/21 17:34	03/13/21 17:34	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	11.4	ug/L	5.0	1	03/13/21 01:26	03/15/21 14:36	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 14:30	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 14:30	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 14:30	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 14:30	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 14:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 14:30	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 14:30	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 14:30	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 14:30	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 14:30	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 14:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 14:30	75-00-3	
Chloroform	1.5	ug/L	0.50	1		03/12/21 14:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 14:30	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 14:30	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 14:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 14:30	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 14:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 14:30	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 14:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 14:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 14:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 14:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 14:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 14:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 14:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 14:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 14:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 14:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 14:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 14:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 14:30	594-20-7	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-25	Lab ID: 92526977004	Collected: 03/10/21 14:21	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 14:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 14:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 14:30	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 14:30	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 14:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 14:30	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 14:30	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 14:30	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 14:30	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 14:30	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 14:30	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 14:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 14:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 14:30	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 14:30	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 14:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 14:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 14:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 14:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 14:30	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 14:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 14:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 14:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 14:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 14:30	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 14:30	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 14:30	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 14:30	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/12/21 14:30	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/12/21 14:30	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/12/21 14:30	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-25D	Lab ID: 92526977005	Collected: 03/10/21 15:42	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 18:07	03/13/21 18:07		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 18:07	03/13/21 18:07		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 18:07	03/13/21 18:07	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 18:07	03/13/21 18:07	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	88.1	%	70.0-130	1	03/13/21 18:07	03/13/21 18:07	615-59-8FID	
2,5-Dibromotoluene (PID)	91.7	%	70.0-130	1	03/13/21 18:07	03/13/21 18:07	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 14:39	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 14:48	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 14:48	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 14:48	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 14:48	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 14:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 14:48	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 14:48	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 14:48	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 14:48	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 14:48	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 14:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 14:48	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 14:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 14:48	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 14:48	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 14:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 14:48	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 14:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 14:48	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 14:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 14:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 14:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 14:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 14:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 14:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 14:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 14:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 14:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 14:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 14:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 14:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 14:48	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-25D	Lab ID: 92526977005	Collected: 03/10/21 15:42	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 14:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 14:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 14:48	10061-02-6	
Diisopropyl ether	<b>1.2</b>	ug/L	0.50	1		03/12/21 14:48	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 14:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 14:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 14:48	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 14:48	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 14:48	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 14:48	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 14:48	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 14:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 14:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 14:48	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 14:48	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 14:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 14:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 14:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 14:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 14:48	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 14:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 14:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 14:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 14:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 14:48	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 14:48	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 14:48	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 14:48	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/12/21 14:48	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/12/21 14:48	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 14:48	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-27	Lab ID: 92526977006	Collected: 03/10/21 12:50	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 18:40	03/13/21 18:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 18:40	03/13/21 18:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 18:40	03/13/21 18:40	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 18:40	03/13/21 18:40	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	86.6	%	70.0-130	1	03/13/21 18:40	03/13/21 18:40	615-59-8FID	
2,5-Dibromotoluene (PID)	93.3	%	70.0-130	1	03/13/21 18:40	03/13/21 18:40	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 14:42	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 15:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 15:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 15:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 15:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 15:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 15:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 15:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 15:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 15:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 15:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 15:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 15:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 15:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 15:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 15:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 15:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 15:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 15:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 15:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 15:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 15:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 15:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 15:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 15:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 15:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 15:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 15:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 15:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 15:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 15:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 15:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 15:05	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-27	Lab ID: 92526977006	Collected: 03/10/21 12:50	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 15:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 15:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 15:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 15:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 15:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 15:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 15:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 15:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 15:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 15:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 15:05	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 15:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 15:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 15:05	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 15:05	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 15:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 15:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 15:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 15:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 15:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 15:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 15:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 15:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 15:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 15:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 15:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 15:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 15:05	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/12/21 15:05	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/12/21 15:05	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 15:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-36	Lab ID: 92526977007	Collected: 03/10/21 16:00	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 19:12	03/13/21 19:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 19:12	03/13/21 19:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 19:12	03/13/21 19:12	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 19:12	03/13/21 19:12	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	85.0	%	70.0-130	1	03/13/21 19:12	03/13/21 19:12	615-59-8FID	
2,5-Dibromotoluene (PID)	88.1	%	70.0-130	1	03/13/21 19:12	03/13/21 19:12	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 14:46	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 15:23	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 15:23	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 15:23	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 15:23	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 15:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 15:23	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 15:23	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 15:23	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 15:23	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 15:23	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 15:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 15:23	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 15:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 15:23	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 15:23	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 15:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 15:23	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 15:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 15:23	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 15:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 15:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 15:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 15:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 15:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 15:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 15:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 15:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 15:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 15:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 15:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 15:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 15:23	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-36	Lab ID: 92526977007	Collected: 03/10/21 16:00	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 15:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 15:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 15:23	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 15:23	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 15:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 15:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 15:23	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 15:23	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 15:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 15:23	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 15:23	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 15:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 15:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 15:23	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 15:23	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 15:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 15:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 15:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 15:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 15:23	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 15:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 15:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 15:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 15:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 15:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 15:23	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 15:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 15:23	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/12/21 15:23	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/12/21 15:23	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 15:23	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-38	Lab ID: 92526977008	Collected: 03/10/21 13:05	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	1770	ug/L	100	1	03/16/21 02:36	03/16/21 02:36		
Aliphatic (C09-C12)	619	ug/L	100	1	03/16/21 02:36	03/16/21 02:36		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/16/21 02:36	03/16/21 02:36	TPHC9C10A	
Total VPH	2490	ug/L	100	1	03/16/21 02:36	03/16/21 02:36	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.5	%	70.0-130	1	03/16/21 02:36	03/16/21 02:36	615-59-8FID	
2,5-Dibromotoluene (PID)	90.5	%	70.0-130	1	03/16/21 02:36	03/16/21 02:36	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 14:49	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	375	ug/L	2.0	4		03/15/21 17:13	71-43-2	
Bromobenzene	ND	ug/L	2.0	4		03/15/21 17:13	108-86-1	
Bromochloromethane	ND	ug/L	2.0	4		03/15/21 17:13	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	4		03/15/21 17:13	75-27-4	
Bromoform	ND	ug/L	2.0	4		03/15/21 17:13	75-25-2	
Bromomethane	ND	ug/L	20.0	4		03/15/21 17:13	74-83-9	
n-Butylbenzene	ND	ug/L	2.0	4		03/15/21 17:13	104-51-8	
sec-Butylbenzene	ND	ug/L	2.0	4		03/15/21 17:13	135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	4		03/15/21 17:13	98-06-6	
Carbon tetrachloride	ND	ug/L	2.0	4		03/15/21 17:13	56-23-5	
Chlorobenzene	ND	ug/L	2.0	4		03/15/21 17:13	108-90-7	
Chloroethane	ND	ug/L	4.0	4		03/15/21 17:13	75-00-3	
Chloroform	ND	ug/L	2.0	4		03/15/21 17:13	67-66-3	
Chloromethane	ND	ug/L	4.0	4		03/15/21 17:13	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	4		03/15/21 17:13	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	4		03/15/21 17:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	4		03/15/21 17:13	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	4		03/15/21 17:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	4		03/15/21 17:13	106-93-4	
Dibromomethane	ND	ug/L	2.0	4		03/15/21 17:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	4		03/15/21 17:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	4		03/15/21 17:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	4		03/15/21 17:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	4		03/15/21 17:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.0	4		03/15/21 17:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	4		03/15/21 17:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	4		03/15/21 17:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	4		03/15/21 17:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	4		03/15/21 17:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	4		03/15/21 17:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	4		03/15/21 17:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	4		03/15/21 17:13	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-38	Lab ID: 92526977008	Collected: 03/10/21 13:05	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	2.0	4		03/15/21 17:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	4		03/15/21 17:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	4		03/15/21 17:13	10061-02-6	
Diisopropyl ether	<b>85.4</b>	ug/L	2.0	4		03/15/21 17:13	108-20-3	
Ethylbenzene	<b>42.4</b>	ug/L	2.0	4		03/15/21 17:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	8.0	4		03/15/21 17:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.0	4		03/15/21 17:13	98-82-8	
Methylene Chloride	ND	ug/L	8.0	4		03/15/21 17:13	75-09-2	
Methyl-tert-butyl ether	<b>33.4</b>	ug/L	2.0	4		03/15/21 17:13	1634-04-4	
Naphthalene	<b>18.1</b>	ug/L	8.0	4		03/15/21 17:13	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	4		03/15/21 17:13	103-65-1	
Styrene	ND	ug/L	2.0	4		03/15/21 17:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	4		03/15/21 17:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	4		03/15/21 17:13	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	4		03/15/21 17:13	127-18-4	
Toluene	<b>323</b>	ug/L	2.0	4		03/15/21 17:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	8.0	4		03/15/21 17:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	8.0	4		03/15/21 17:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	4		03/15/21 17:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	4		03/15/21 17:13	79-00-5	
Trichloroethene	ND	ug/L	2.0	4		03/15/21 17:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	4		03/15/21 17:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	4		03/15/21 17:13	96-18-4	
1,2,4-Trimethylbenzene	<b>29.8</b>	ug/L	2.0	4		03/15/21 17:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	4		03/15/21 17:13	108-67-8	
Vinyl chloride	ND	ug/L	4.0	4		03/15/21 17:13	75-01-4	
m&p-Xylene	<b>189</b>	ug/L	4.0	4		03/15/21 17:13	179601-23-1	
o-Xylene	<b>101</b>	ug/L	2.0	4		03/15/21 17:13	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	4		03/15/21 17:13	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	4		03/15/21 17:13	460-00-4	
Toluene-d8 (S)	99	%	70-130	4		03/15/21 17:13	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Sample: MW-53	Lab ID: 92526977009	Collected: 03/10/21 15:45	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	1330	ug/L	100	1	03/13/21 20:34	03/13/21 20:34		
Aliphatic (C09-C12)	440	ug/L	100	1	03/13/21 20:34	03/13/21 20:34		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 20:34	03/13/21 20:34	TPHC9C10A	
Total VPH	1860	ug/L	100	1	03/13/21 20:34	03/13/21 20:34	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	91.2	%	70.0-130	1	03/13/21 20:34	03/13/21 20:34	615-59-8FID	
2,5-Dibromotoluene (PID)	93.6	%	70.0-130	1	03/13/21 20:34	03/13/21 20:34	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 14:52	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 15:59	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 15:59	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 15:59	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 15:59	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 15:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 15:59	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 15:59	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 15:59	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 15:59	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 15:59	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 15:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 15:59	75-00-3	
Chloroform	0.60	ug/L	0.50	1		03/12/21 15:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 15:59	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 15:59	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 15:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 15:59	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 15:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 15:59	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 15:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 15:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 15:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 15:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 15:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 15:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 15:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 15:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 15:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 15:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 15:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 15:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 15:59	594-20-7	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-53	Lab ID: 92526977009	Collected: 03/10/21 15:45	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 15:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 15:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 15:59	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 15:59	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 15:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 15:59	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 15:59	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 15:59	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 15:59	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 15:59	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 15:59	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 15:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 15:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 15:59	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 15:59	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 15:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 15:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 15:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 15:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 15:59	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 15:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 15:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 15:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 15:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 15:59	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 15:59	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 15:59	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 15:59	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/12/21 15:59	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/12/21 15:59	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 15:59	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Sample: MW-61D	Lab ID: 92526977010	Collected: 03/10/21 15:45	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 21:07	03/13/21 21:07		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 21:07	03/13/21 21:07		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 21:07	03/13/21 21:07	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 21:07	03/13/21 21:07	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	86.4	%	70.0-130	1	03/13/21 21:07	03/13/21 21:07	615-59-8FID	
2,5-Dibromotoluene (PID)	89.0	%	70.0-130	1	03/13/21 21:07	03/13/21 21:07	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 15:08	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 16:16	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 16:16	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 16:16	74-97-5	
Bromodichloromethane	3.1	ug/L	0.50	1		03/12/21 16:16	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 16:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 16:16	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 16:16	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 16:16	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 16:16	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 16:16	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 16:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 16:16	75-00-3	
Chloroform	12.0	ug/L	0.50	1		03/12/21 16:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 16:16	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 16:16	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 16:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 16:16	96-12-8	
Dibromochloromethane	0.59	ug/L	0.50	1		03/12/21 16:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 16:16	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 16:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 16:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 16:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 16:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 16:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 16:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 16:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 16:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 16:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 16:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 16:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 16:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 16:16	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-61D	Lab ID: 92526977010	Collected: 03/10/21 15:45	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 16:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 16:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 16:16	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 16:16	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 16:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 16:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 16:16	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 16:16	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 16:16	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 16:16	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 16:16	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 16:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 16:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 16:16	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 16:16	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 16:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 16:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 16:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 16:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 16:16	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 16:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 16:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 16:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 16:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 16:16	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 16:16	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 16:16	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 16:16	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/12/21 16:16	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/12/21 16:16	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/12/21 16:16	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Sample: MW-59D	Lab ID: 92526977011	Collected: 03/10/21 11:15	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 21:40	03/13/21 21:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 21:40	03/13/21 21:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 21:40	03/13/21 21:40	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 21:40	03/13/21 21:40	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	88.5	%	70.0-130	1	03/13/21 21:40	03/13/21 21:40	615-59-8FID	
2,5-Dibromotoluene (PID)	91.5	%	70.0-130	1	03/13/21 21:40	03/13/21 21:40	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	5.7	ug/L	5.0	1	03/13/21 01:26	03/15/21 15:12	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 16:34	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 16:34	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 16:34	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 16:34	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 16:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 16:34	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 16:34	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 16:34	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 16:34	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 16:34	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 16:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 16:34	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 16:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 16:34	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 16:34	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 16:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 16:34	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 16:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 16:34	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 16:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 16:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 16:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 16:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 16:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 16:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 16:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 16:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 16:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 16:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 16:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 16:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 16:34	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-59D	Lab ID: 92526977011	Collected: 03/10/21 11:15	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 16:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 16:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 16:34	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 16:34	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 16:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 16:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 16:34	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 16:34	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 16:34	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 16:34	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 16:34	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 16:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 16:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 16:34	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 16:34	127-18-4	
Toluene	<b>13.1</b>	ug/L	0.50	1		03/12/21 16:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 16:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 16:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 16:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 16:34	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 16:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 16:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 16:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 16:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 16:34	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 16:34	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 16:34	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 16:34	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/12/21 16:34	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/12/21 16:34	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/12/21 16:34	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-63	Lab ID: 92526977012	Collected: 03/10/21 10:40	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 22:13	03/13/21 22:13		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 22:13	03/13/21 22:13		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 22:13	03/13/21 22:13	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 22:13	03/13/21 22:13	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	84.6	%	70.0-130	1	03/13/21 22:13	03/13/21 22:13	615-59-8FID	
2,5-Dibromotoluene (PID)	88.7	%	70.0-130	1	03/13/21 22:13	03/13/21 22:13	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 15:15	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 16:52	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 16:52	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 16:52	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 16:52	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 16:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 16:52	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 16:52	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 16:52	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 16:52	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 16:52	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 16:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 16:52	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 16:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 16:52	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 16:52	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 16:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 16:52	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 16:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 16:52	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 16:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 16:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 16:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 16:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 16:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 16:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 16:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 16:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 16:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 16:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 16:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 16:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 16:52	594-20-7	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-63	Lab ID: 92526977012	Collected: 03/10/21 10:40	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 16:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 16:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 16:52	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 16:52	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 16:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 16:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 16:52	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 16:52	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 16:52	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 16:52	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 16:52	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 16:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 16:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 16:52	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 16:52	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 16:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 16:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 16:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 16:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 16:52	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 16:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 16:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 16:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 16:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 16:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 16:52	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 16:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 16:52	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/12/21 16:52	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/12/21 16:52	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/12/21 16:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Sample: MW-72	Lab ID: 92526977013	Collected: 03/10/21 15:35	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	110	ug/L	100	1	03/13/21 22:46	03/13/21 22:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 22:46	03/13/21 22:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 22:46	03/13/21 22:46	TPHC9C10A	
Total VPH	166	ug/L	100	1	03/13/21 22:46	03/13/21 22:46	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	89.4	%	70.0-130	1	03/13/21 22:46	03/13/21 22:46	615-59-8FID	
2,5-Dibromotoluene (PID)	93.5	%	70.0-130	1	03/13/21 22:46	03/13/21 22:46	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	9.0	ug/L	5.0	1	03/13/21 01:26	03/15/21 15:18	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	4.2	ug/L	0.50	1		03/12/21 17:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 17:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 17:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 17:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 17:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 17:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 17:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 17:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 17:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 17:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 17:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 17:10	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 17:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 17:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 17:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 17:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 17:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 17:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 17:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 17:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 17:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 17:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 17:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 17:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 17:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 17:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 17:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 17:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 17:10	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: MW-72	Lab ID: 92526977013	Collected: 03/10/21 15:35	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 17:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 17:10	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 17:10	108-20-3	
Ethylbenzene	3.7	ug/L	0.50	1		03/12/21 17:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 17:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 17:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 17:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 17:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 17:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 17:10	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 17:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 17:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 17:10	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 17:10	127-18-4	
Toluene	27.9	ug/L	0.50	1		03/12/21 17:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 17:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 17:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 17:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 17:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 17:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 17:10	96-18-4	
1,2,4-Trimethylbenzene	1.9	ug/L	0.50	1		03/12/21 17:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 17:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 17:10	75-01-4	
m&p-Xylene	14.2	ug/L	1.0	1		03/12/21 17:10	179601-23-1	
o-Xylene	5.9	ug/L	0.50	1		03/12/21 17:10	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/12/21 17:10	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/12/21 17:10	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 17:10	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Sample: EB-1-20210310	Lab ID: 92526977014	Collected: 03/10/21 17:00	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 14:12	03/13/21 14:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 14:12	03/13/21 14:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 14:12	03/13/21 14:12	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 14:12	03/13/21 14:12	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	82.0	%	70.0-130	1	03/13/21 14:12	03/13/21 14:12	615-59-8FID	
2,5-Dibromotoluene (PID)	85.4	%	70.0-130	1	03/13/21 14:12	03/13/21 14:12	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 15:21	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 23:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 23:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 23:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 23:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 23:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 23:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 23:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 23:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 23:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 23:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 23:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 23:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 23:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 23:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 23:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 23:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:03	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: <b>EB-1-20210310</b>	Lab ID: <b>92526977014</b>	Collected: 03/10/21 17:00	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 23:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 23:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 23:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 23:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 23:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 23:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 23:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 23:03	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 23:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 23:03	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 23:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 23:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 23:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 23:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 23:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 23:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 23:03	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		03/12/21 23:03	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		03/12/21 23:03	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		03/12/21 23:03	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

**Sample: DUP-1-20210310**      **Lab ID: 92526977015**      Collected: 03/10/21 00:00      Received: 03/10/21 18:00      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEP VPH      Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	<b>1570</b>	ug/L	100	1	03/13/21 23:19	03/13/21 23:19		
Aliphatic (C09-C12)	<b>464</b>	ug/L	100	1	03/13/21 23:19	03/13/21 23:19		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 23:19	03/13/21 23:19	TPHC9C10A	
Total VPH	<b>2100</b>	ug/L	100	1	03/13/21 23:19	03/13/21 23:19	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	91.8	%	70.0-130	1	03/13/21 23:19	03/13/21 23:19	615-59-8FID	
2,5-Dibromotoluene (PID)	96.3	%	70.0-130	1	03/13/21 23:19	03/13/21 23:19	615-59-8PID	

**6010 MET ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	03/13/21 01:26	03/15/21 15:25	7439-92-1	
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**6200B MSV**

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	<b>377</b>	ug/L	2.0	4		03/15/21 17:31	71-43-2	
Bromobenzene	ND	ug/L	2.0	4		03/15/21 17:31	108-86-1	
Bromochloromethane	ND	ug/L	2.0	4		03/15/21 17:31	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	4		03/15/21 17:31	75-27-4	
Bromoform	ND	ug/L	2.0	4		03/15/21 17:31	75-25-2	
Bromomethane	ND	ug/L	20.0	4		03/15/21 17:31	74-83-9	
n-Butylbenzene	ND	ug/L	2.0	4		03/15/21 17:31	104-51-8	
sec-Butylbenzene	ND	ug/L	2.0	4		03/15/21 17:31	135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	4		03/15/21 17:31	98-06-6	
Carbon tetrachloride	ND	ug/L	2.0	4		03/15/21 17:31	56-23-5	
Chlorobenzene	ND	ug/L	2.0	4		03/15/21 17:31	108-90-7	
Chloroethane	ND	ug/L	4.0	4		03/15/21 17:31	75-00-3	
Chloroform	ND	ug/L	2.0	4		03/15/21 17:31	67-66-3	
Chloromethane	ND	ug/L	4.0	4		03/15/21 17:31	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	4		03/15/21 17:31	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	4		03/15/21 17:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	4		03/15/21 17:31	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	4		03/15/21 17:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	4		03/15/21 17:31	106-93-4	
Dibromomethane	ND	ug/L	2.0	4		03/15/21 17:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	4		03/15/21 17:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	4		03/15/21 17:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	4		03/15/21 17:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	4		03/15/21 17:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.0	4		03/15/21 17:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	4		03/15/21 17:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	4		03/15/21 17:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	4		03/15/21 17:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	4		03/15/21 17:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	4		03/15/21 17:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	4		03/15/21 17:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	4		03/15/21 17:31	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: DUP-1-20210310	Lab ID: 92526977015	Collected: 03/10/21 00:00	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	2.0	4		03/15/21 17:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	4		03/15/21 17:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	4		03/15/21 17:31	10061-02-6	
Diisopropyl ether	<b>89.7</b>	ug/L	2.0	4		03/15/21 17:31	108-20-3	
Ethylbenzene	<b>42.4</b>	ug/L	2.0	4		03/15/21 17:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	8.0	4		03/15/21 17:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.0	4		03/15/21 17:31	98-82-8	
Methylene Chloride	ND	ug/L	8.0	4		03/15/21 17:31	75-09-2	
Methyl-tert-butyl ether	<b>35.1</b>	ug/L	2.0	4		03/15/21 17:31	1634-04-4	
Naphthalene	ND	ug/L	8.0	4		03/15/21 17:31	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	4		03/15/21 17:31	103-65-1	
Styrene	ND	ug/L	2.0	4		03/15/21 17:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	4		03/15/21 17:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	4		03/15/21 17:31	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	4		03/15/21 17:31	127-18-4	
Toluene	<b>327</b>	ug/L	2.0	4		03/15/21 17:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	8.0	4		03/15/21 17:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	8.0	4		03/15/21 17:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	4		03/15/21 17:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	4		03/15/21 17:31	79-00-5	
Trichloroethene	ND	ug/L	2.0	4		03/15/21 17:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	4		03/15/21 17:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	4		03/15/21 17:31	96-18-4	
1,2,4-Trimethylbenzene	<b>22.8</b>	ug/L	2.0	4		03/15/21 17:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	4		03/15/21 17:31	108-67-8	
Vinyl chloride	ND	ug/L	4.0	4		03/15/21 17:31	75-01-4	
m&p-Xylene	<b>195</b>	ug/L	4.0	4		03/15/21 17:31	179601-23-1	
o-Xylene	<b>105</b>	ug/L	2.0	4		03/15/21 17:31	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	4		03/15/21 17:31	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	4		03/15/21 17:31	460-00-4	
Toluene-d8 (S)	98	%	70-130	4		03/15/21 17:31	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: Trip Blank	Lab ID: 92526977016	Collected: 03/10/21 00:00	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/12/21 23:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 23:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 23:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 23:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 23:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 23:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 23:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 23:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 23:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 23:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 23:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 23:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 23:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 23:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 23:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 23:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 23:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 23:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 23:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 23:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 23:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 23:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 23:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 23:21	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 23:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:21	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:21	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Sample: Trip Blank		Lab ID: 92526977016		Collected: 03/10/21 00:00	Received: 03/10/21 18:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 23:21	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 23:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 23:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 23:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 23:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 23:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 23:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 23:21	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/12/21 23:21	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		03/12/21 23:21	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/12/21 23:21	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Sample: Trip Blank	Lab ID: 92526977017	Collected: 03/10/21 00:00	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/12/21 23:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 23:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 23:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 23:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 23:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 23:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 23:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 23:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 23:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 23:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 23:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 23:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 23:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 23:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 23:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 23:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 23:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 23:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 23:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 23:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 23:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 23:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 23:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 23:39	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 23:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:39	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Sample: Trip Blank		Lab ID: 92526977017	Collected: 03/10/21 00:00	Received: 03/10/21 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 23:39	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 23:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 23:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 23:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 23:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 23:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 23:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 23:39	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/12/21 23:39	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		03/12/21 23:39	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 23:39	2037-26-5	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

QC Batch:	1634105	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet
Associated Lab Samples:	92526977001, 92526977002, 92526977004, 92526977005, 92526977006, 92526977007, 92526977009, 92526977010, 92526977011, 92526977012, 92526977013, 92526977014, 92526977015		

METHOD BLANK:	R3630737-3	Matrix:	Water
Associated Lab Samples:	92526977001, 92526977002, 92526977004, 92526977005, 92526977006, 92526977007, 92526977009, 92526977010, 92526977011, 92526977012, 92526977013, 92526977014, 92526977015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/13/21 12:54	
Aliphatic (C09-C12)	ug/L	ND	100	03/13/21 12:54	
Aromatic (C09-C10), Unadjusted	ug/L	ND	100	03/13/21 12:54	
Total VPH	ug/L	ND	100	03/13/21 12:54	
2,5-Dibromotoluene (FID)	%	92.2	70.0-130	03/13/21 12:54	
2,5-Dibromotoluene (PID)	%	93.1	70.0-130	03/13/21 12:54	

Parameter	Units	R3630737-1		R3630737-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
Aliphatic (C05-C08)	ug/L	1200	1110	1100	92.5	91.7	70.0-130	0.905	25
Aliphatic (C09-C12)	ug/L	1400	1200	1220	85.7	87.1	70.0-130	1.65	25
Aromatic (C09-C10), Unadjusted	ug/L	200	233	217	117	108	70.0-130	7.11	25
Total VPH	ug/L	2800	2540	2540	90.7	90.7	70.0-130	0.00	25
2,5-Dibromotoluene (FID)	%				87.2	95.8	70.0-130		
2,5-Dibromotoluene (PID)	%				89.4	98.1	70.0-130		

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

QC Batch: 1634767      Analysis Method: MADEP VPH  
QC Batch Method: MADEPV      Analysis Description: MADEPV  
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526977003, 92526977008

METHOD BLANK: R3631404-2      Matrix: Water  
Associated Lab Samples: 92526977003, 92526977008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/16/21 01:29	
Aliphatic (C09-C12)	ug/L	ND	100	03/16/21 01:29	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/16/21 01:29	
Total VPH	ug/L	ND	100	03/16/21 01:29	
2,5-Dibromotoluene (FID)	%	91.9	70.0-130	03/16/21 01:29	
2,5-Dibromotoluene (PID)	%	85.8	70.0-130	03/16/21 01:29	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: R3631404-1					R3631404-3				
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Aliphatic (C05-C08)	ug/L	1200	1190	1180	99.2	98.3	70.0-130	0.844	25		
Aliphatic (C09-C12)	ug/L	1400	1700	1650	121	118	70.0-130	2.99	25		
Aromatic (C09-C10),Unadjusted	ug/L	200	229	217	115	108	70.0-130	5.38	25		
Total VPH	ug/L	2800	3120	3050	111	109	70.0-130	2.27	25		
2,5-Dibromotoluene (FID)	%				98.6	97.5	70.0-130				
2,5-Dibromotoluene (PID)	%				92.8	91.4	70.0-130				

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

QC Batch:	606418	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92526977001, 92526977002, 92526977003, 92526977004, 92526977005, 92526977006, 92526977007, 92526977008, 92526977009, 92526977010, 92526977011, 92526977012, 92526977013, 92526977014, 92526977015

METHOD BLANK: 3195048 Matrix: Water

Associated Lab Samples: 92526977001, 92526977002, 92526977003, 92526977004, 92526977005, 92526977006, 92526977007, 92526977008, 92526977009, 92526977010, 92526977011, 92526977012, 92526977013, 92526977014, 92526977015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/15/21 13:47	

LABORATORY CONTROL SAMPLE: 3195049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	473	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195050 3195051

Parameter	92526842009		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.							
Lead	ug/L	ND	500	500	481	500	96	100	75-125	4	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

QC Batch: 606279 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92526977001, 92526977002, 92526977003, 92526977004, 92526977005, 92526977006, 92526977007, 92526977009, 92526977010, 92526977011, 92526977012, 92526977013

METHOD BLANK: 3194084 Matrix: Water  
Associated Lab Samples: 92526977001, 92526977002, 92526977003, 92526977004, 92526977005, 92526977006, 92526977007, 92526977009, 92526977010, 92526977011, 92526977012, 92526977013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 10:39	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/12/21 10:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 10:39	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/12/21 10:39	
1,1-Dichloroethane	ug/L	ND	0.50	03/12/21 10:39	
1,1-Dichloroethene	ug/L	ND	0.50	03/12/21 10:39	
1,1-Dichloropropene	ug/L	ND	0.50	03/12/21 10:39	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/12/21 10:39	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/12/21 10:39	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/12/21 10:39	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/12/21 10:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/12/21 10:39	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/12/21 10:39	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/12/21 10:39	
1,2-Dichloroethane	ug/L	ND	0.50	03/12/21 10:39	
1,2-Dichloropropane	ug/L	ND	0.50	03/12/21 10:39	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/12/21 10:39	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/12/21 10:39	
1,3-Dichloropropane	ug/L	ND	0.50	03/12/21 10:39	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/12/21 10:39	
2,2-Dichloropropane	ug/L	ND	0.50	03/12/21 10:39	
2-Chlorotoluene	ug/L	ND	0.50	03/12/21 10:39	
4-Chlorotoluene	ug/L	ND	0.50	03/12/21 10:39	
Benzene	ug/L	ND	0.50	03/12/21 10:39	
Bromobenzene	ug/L	ND	0.50	03/12/21 10:39	
Bromochloromethane	ug/L	ND	0.50	03/12/21 10:39	
Bromodichloromethane	ug/L	ND	0.50	03/12/21 10:39	
Bromoform	ug/L	ND	0.50	03/12/21 10:39	
Bromomethane	ug/L	ND	5.0	03/12/21 10:39	
Carbon tetrachloride	ug/L	ND	0.50	03/12/21 10:39	
Chlorobenzene	ug/L	ND	0.50	03/12/21 10:39	
Chloroethane	ug/L	ND	1.0	03/12/21 10:39	
Chloroform	ug/L	ND	0.50	03/12/21 10:39	
Chloromethane	ug/L	ND	1.0	03/12/21 10:39	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 10:39	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 10:39	
Dibromochloromethane	ug/L	ND	0.50	03/12/21 10:39	
Dibromomethane	ug/L	ND	0.50	03/12/21 10:39	
Dichlorodifluoromethane	ug/L	ND	0.50	03/12/21 10:39	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

METHOD BLANK: 3194084

Matrix: Water

Associated Lab Samples: 92526977001, 92526977002, 92526977003, 92526977004, 92526977005, 92526977006, 92526977007, 92526977009, 92526977010, 92526977011, 92526977012, 92526977013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	0.50	03/12/21 10:39	
Ethylbenzene	ug/L	ND	0.50	03/12/21 10:39	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/12/21 10:39	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/12/21 10:39	
m&p-Xylene	ug/L	ND	1.0	03/12/21 10:39	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/12/21 10:39	
Methylene Chloride	ug/L	ND	2.0	03/12/21 10:39	
n-Butylbenzene	ug/L	ND	0.50	03/12/21 10:39	
n-Propylbenzene	ug/L	ND	0.50	03/12/21 10:39	
Naphthalene	ug/L	ND	2.0	03/12/21 10:39	
o-Xylene	ug/L	ND	0.50	03/12/21 10:39	
sec-Butylbenzene	ug/L	ND	0.50	03/12/21 10:39	
Styrene	ug/L	ND	0.50	03/12/21 10:39	
tert-Butylbenzene	ug/L	ND	0.50	03/12/21 10:39	
Tetrachloroethene	ug/L	ND	0.50	03/12/21 10:39	
Toluene	ug/L	ND	0.50	03/12/21 10:39	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 10:39	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 10:39	
Trichloroethene	ug/L	ND	0.50	03/12/21 10:39	
Trichlorofluoromethane	ug/L	ND	1.0	03/12/21 10:39	
Vinyl chloride	ug/L	ND	1.0	03/12/21 10:39	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/12/21 10:39	
4-Bromofluorobenzene (S)	%	100	70-130	03/12/21 10:39	
Toluene-d8 (S)	%	99	70-130	03/12/21 10:39	

LABORATORY CONTROL SAMPLE: 3194085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.6	111	60-140	
1,1,1-Trichloroethane	ug/L	50	49.1	98	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.2	108	60-140	
1,1,2-Trichloroethane	ug/L	50	51.3	103	60-140	
1,1-Dichloroethane	ug/L	50	48.0	96	60-140	
1,1-Dichloroethene	ug/L	50	50.0	100	60-140	
1,1-Dichloropropene	ug/L	50	50.1	100	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.7	109	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	55.3	111	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.9	102	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	54.5	109	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.3	111	60-140	
1,2-Dichlorobenzene	ug/L	50	49.8	100	60-140	
1,2-Dichloroethane	ug/L	50	48.4	97	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

LABORATORY CONTROL SAMPLE: 3194085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	48.2	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.5	101	60-140	
1,3-Dichlorobenzene	ug/L	50	49.5	99	60-140	
1,3-Dichloropropane	ug/L	50	53.1	106	60-140	
1,4-Dichlorobenzene	ug/L	50	49.5	99	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	49.2	98	60-140	
4-Chlorotoluene	ug/L	50	48.9	98	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	48.2	96	60-140	
Bromochloromethane	ug/L	50	51.7	103	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	47.4	95	60-140	
Bromomethane	ug/L	50	48.1	96	60-140	
Carbon tetrachloride	ug/L	50	50.5	101	60-140	
Chlorobenzene	ug/L	50	50.3	101	60-140	
Chloroethane	ug/L	50	44.0	88	60-140	
Chloroform	ug/L	50	48.3	97	60-140	
Chloromethane	ug/L	50	43.6	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.8	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Dibromochloromethane	ug/L	50	57.3	115	60-140	
Dibromomethane	ug/L	50	51.1	102	60-140	
Dichlorodifluoromethane	ug/L	50	47.7	95	60-140	
Diisopropyl ether	ug/L	50	45.9	92	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.4	111	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	49.4	99	60-140	
Methylene Chloride	ug/L	50	43.1	86	60-140	
n-Butylbenzene	ug/L	50	55.8	112	60-140	
n-Propylbenzene	ug/L	50	48.3	97	60-140	
Naphthalene	ug/L	50	53.4	107	60-140	
o-Xylene	ug/L	50	51.3	103	60-140	
sec-Butylbenzene	ug/L	50	51.2	102	60-140	
Styrene	ug/L	50	51.2	102	60-140	
tert-Butylbenzene	ug/L	50	41.2	82	60-140	
Tetrachloroethene	ug/L	50	50.6	101	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.5	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	49.3	99	60-140	
Trichlorofluoromethane	ug/L	50	44.3	89	60-140	
Vinyl chloride	ug/L	50	43.5	87	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

LABORATORY CONTROL SAMPLE: 3194085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3194086 3194087

Parameter	92526977001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	26.7	23.0	133	115	60-140	15	
1,1,1-Trichloroethane	ug/L	ND	20	20	25.7	22.4	128	112	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	26.4	23.3	132	117	60-140	13	
1,1,2-Trichloroethane	ug/L	ND	20	20	26.3	22.7	131	114	60-140	15	
1,1-Dichloroethane	ug/L	ND	20	20	25.6	22.3	128	111	60-140	14	
1,1-Dichloroethene	ug/L	ND	20	20	26.7	23.3	134	117	60-140	14	
1,1-Dichloropropene	ug/L	ND	20	20	26.5	23.1	132	116	60-140	14	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	25.8	23.4	129	117	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	20	20	25.8	22.4	129	112	60-140	14	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	25.9	23.7	130	118	60-140	9	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	25.5	22.4	127	112	60-140	13	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	25.0	22.1	125	111	60-140	12	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	27.2	23.7	136	118	60-140	14	
1,2-Dichlorobenzene	ug/L	ND	20	20	24.4	22.1	122	110	60-140	10	
1,2-Dichloroethane	ug/L	ND	20	20	25.3	21.6	127	108	60-140	16	
1,2-Dichloropropane	ug/L	ND	20	20	25.7	22.3	129	112	60-140	14	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	25.1	22.5	125	113	60-140	11	
1,3-Dichlorobenzene	ug/L	ND	20	20	24.4	22.6	122	113	60-140	8	
1,3-Dichloropropane	ug/L	ND	20	20	26.6	22.8	133	114	60-140	15	
1,4-Dichlorobenzene	ug/L	ND	20	20	23.7	21.5	119	108	60-140	10	
2,2-Dichloropropane	ug/L	ND	20	20	25.9	21.7	129	108	60-140	18	
2-Chlorotoluene	ug/L	ND	20	20	24.2	22.1	121	110	60-140	9	
4-Chlorotoluene	ug/L	ND	20	20	23.9	21.8	119	109	60-140	9	
Benzene	ug/L	ND	20	20	25.8	22.6	129	113	60-140	13	
Bromobenzene	ug/L	ND	20	20	23.6	21.1	118	105	60-140	11	
Bromochloromethane	ug/L	ND	20	20	26.6	23.1	133	116	60-140	14	
Bromodichloromethane	ug/L	ND	20	20	25.8	22.5	129	112	60-140	14	
Bromoform	ug/L	ND	20	20	22.9	18.9	114	95	60-140	19	
Bromomethane	ug/L	ND	20	20	24.8	22.1	124	110	60-140	11	
Carbon tetrachloride	ug/L	ND	20	20	26.7	23.8	133	119	60-140	11	
Chlorobenzene	ug/L	ND	20	20	24.8	23.1	124	116	60-140	7	
Chloroethane	ug/L	ND	20	20	25.0	20.7	125	103	60-140	19	
Chloroform	ug/L	ND	20	20	25.5	22.0	128	110	60-140	15	
Chloromethane	ug/L	ND	20	20	19.4	17.2	97	86	60-140	12	
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.1	20.6	121	103	60-140	16	
cis-1,3-Dichloropropene	ug/L	ND	20	20	26.4	23.0	132	115	60-140	14	
Dibromochloromethane	ug/L	ND	20	20	26.8	23.6	134	118	60-140	13	
Dibromomethane	ug/L	ND	20	20	27.3	22.4	136	112	60-140	19	
Dichlorodifluoromethane	ug/L	ND	20	20	23.8	21.1	119	106	60-140	12	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Parameter	92526977001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Diisopropyl ether	ug/L	ND	20	20	23.1	19.2	115	96	60-140	18				
Ethylbenzene	ug/L	ND	20	20	25.0	23.1	125	115	60-140	8				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	26.1	24.6	130	123	60-140	6				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	25.4	24.2	127	121	60-140	5				
m&p-Xylene	ug/L	ND	40	40	50.2	46.6	125	117	60-140	7				
Methyl-tert-butyl ether	ug/L	ND	20	20	24.6	20.3	123	101	60-140	19				
Methylene Chloride	ug/L	ND	20	20	21.8	18.8	109	94	60-140	15				
n-Butylbenzene	ug/L	ND	20	20	26.7	24.5	134	123	60-140	9				
n-Propylbenzene	ug/L	ND	20	20	23.9	22.0	120	110	60-140	8				
Naphthalene	ug/L	ND	20	20	26.1	22.4	130	112	60-140	15				
o-Xylene	ug/L	ND	20	20	25.9	23.0	130	115	60-140	12				
sec-Butylbenzene	ug/L	ND	20	20	25.7	23.5	128	117	60-140	9				
Styrene	ug/L	ND	20	20	24.7	22.4	124	112	60-140	10				
tert-Butylbenzene	ug/L	ND	20	20	20.8	18.9	104	95	60-140	10				
Tetrachloroethene	ug/L	ND	20	20	24.1	23.3	120	117	60-140	3				
Toluene	ug/L	ND	20	20	24.9	22.3	125	112	60-140	11				
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.3	22.0	127	110	60-140	14				
trans-1,3-Dichloropropene	ug/L	ND	20	20	26.0	22.3	130	111	60-140	15				
Trichloroethene	ug/L	ND	20	20	26.6	23.0	133	115	60-140	15				
Trichlorofluoromethane	ug/L	ND	20	20	24.7	22.0	123	110	60-140	11				
Vinyl chloride	ug/L	ND	20	20	23.1	20.0	115	100	60-140	14				
1,2-Dichloroethane-d4 (S)	%						96	97	70-130					
4-Bromofluorobenzene (S)	%						98	98	70-130					
Toluene-d8 (S)	%						98	97	70-130					

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

QC Batch: 606352

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526977014, 92526977016, 92526977017

METHOD BLANK: 3194451

Matrix: Water

Associated Lab Samples: 92526977014, 92526977016, 92526977017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,1-Dichloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,1-Dichloroethene	ug/L	ND	0.50	03/12/21 22:09	
1,1-Dichloropropene	ug/L	ND	0.50	03/12/21 22:09	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/12/21 22:09	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/12/21 22:09	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/12/21 22:09	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/12/21 22:09	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/12/21 22:09	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/12/21 22:09	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:09	
1,2-Dichloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,2-Dichloropropane	ug/L	ND	0.50	03/12/21 22:09	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/12/21 22:09	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:09	
1,3-Dichloropropane	ug/L	ND	0.50	03/12/21 22:09	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:09	
2,2-Dichloropropane	ug/L	ND	0.50	03/12/21 22:09	
2-Chlorotoluene	ug/L	ND	0.50	03/12/21 22:09	
4-Chlorotoluene	ug/L	ND	0.50	03/12/21 22:09	
Benzene	ug/L	ND	0.50	03/12/21 22:09	
Bromobenzene	ug/L	ND	0.50	03/12/21 22:09	
Bromochloromethane	ug/L	ND	0.50	03/12/21 22:09	
Bromodichloromethane	ug/L	ND	0.50	03/12/21 22:09	
Bromoform	ug/L	ND	0.50	03/12/21 22:09	
Bromomethane	ug/L	ND	5.0	03/12/21 22:09	
Carbon tetrachloride	ug/L	ND	0.50	03/12/21 22:09	
Chlorobenzene	ug/L	ND	0.50	03/12/21 22:09	
Chloroethane	ug/L	ND	1.0	03/12/21 22:09	
Chloroform	ug/L	ND	0.50	03/12/21 22:09	
Chloromethane	ug/L	ND	1.0	03/12/21 22:09	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 22:09	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 22:09	
Dibromochloromethane	ug/L	ND	0.50	03/12/21 22:09	
Dibromomethane	ug/L	ND	0.50	03/12/21 22:09	
Dichlorodifluoromethane	ug/L	ND	0.50	03/12/21 22:09	
Diisopropyl ether	ug/L	ND	0.50	03/12/21 22:09	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

METHOD BLANK: 3194451

Matrix: Water

Associated Lab Samples: 92526977014, 92526977016, 92526977017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/12/21 22:09	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/12/21 22:09	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/12/21 22:09	
m&p-Xylene	ug/L	ND	1.0	03/12/21 22:09	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/12/21 22:09	
Methylene Chloride	ug/L	ND	2.0	03/12/21 22:09	
n-Butylbenzene	ug/L	ND	0.50	03/12/21 22:09	
n-Propylbenzene	ug/L	ND	0.50	03/12/21 22:09	
Naphthalene	ug/L	ND	2.0	03/12/21 22:09	
o-Xylene	ug/L	ND	0.50	03/12/21 22:09	
sec-Butylbenzene	ug/L	ND	0.50	03/12/21 22:09	
Styrene	ug/L	ND	0.50	03/12/21 22:09	
tert-Butylbenzene	ug/L	ND	0.50	03/12/21 22:09	
Tetrachloroethene	ug/L	ND	0.50	03/12/21 22:09	
Toluene	ug/L	ND	0.50	03/12/21 22:09	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 22:09	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 22:09	
Trichloroethene	ug/L	ND	0.50	03/12/21 22:09	
Trichlorofluoromethane	ug/L	ND	1.0	03/12/21 22:09	
Vinyl chloride	ug/L	ND	1.0	03/12/21 22:09	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/12/21 22:09	
4-Bromofluorobenzene (S)	%	100	70-130	03/12/21 22:09	
Toluene-d8 (S)	%	99	70-130	03/12/21 22:09	

LABORATORY CONTROL SAMPLE: 3194452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.8	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.4	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.1	104	60-140	
1,1,2-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1-Dichloroethane	ug/L	50	52.3	105	60-140	
1,1-Dichloroethene	ug/L	50	53.9	108	60-140	
1,1-Dichloropropene	ug/L	50	51.8	104	60-140	
1,2,3-Trichlorobenzene	ug/L	50	45.3	91	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.2	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.0	106	60-140	
1,2-Dichlorobenzene	ug/L	50	49.4	99	60-140	
1,2-Dichloroethane	ug/L	50	51.7	103	60-140	
1,2-Dichloropropane	ug/L	50	54.0	108	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.4	95	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

LABORATORY CONTROL SAMPLE: 3194452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.9	100	60-140	
1,3-Dichloropropane	ug/L	50	53.3	107	60-140	
1,4-Dichlorobenzene	ug/L	50	48.0	96	60-140	
2,2-Dichloropropane	ug/L	50	53.8	108	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	48.6	97	60-140	
Benzene	ug/L	50	50.9	102	60-140	
Bromobenzene	ug/L	50	49.8	100	60-140	
Bromochloromethane	ug/L	50	52.1	104	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	46.4	93	60-140	
Bromomethane	ug/L	50	59.2	118	60-140	
Carbon tetrachloride	ug/L	50	51.4	103	60-140	
Chlorobenzene	ug/L	50	52.5	105	60-140	
Chloroethane	ug/L	50	45.4	91	60-140	
Chloroform	ug/L	50	50.3	101	60-140	
Chloromethane	ug/L	50	42.3	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	60-140	
Dibromochloromethane	ug/L	50	54.3	109	60-140	
Dibromomethane	ug/L	50	51.6	103	60-140	
Dichlorodifluoromethane	ug/L	50	45.1	90	60-140	
Diisopropyl ether	ug/L	50	50.9	102	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.2	100	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.6	101	60-140	
m&p-Xylene	ug/L	100	103	103	60-140	
Methyl-tert-butyl ether	ug/L	50	51.3	103	60-140	
Methylene Chloride	ug/L	50	50.6	101	60-140	
n-Butylbenzene	ug/L	50	49.2	98	60-140	
n-Propylbenzene	ug/L	50	48.5	97	60-140	
Naphthalene	ug/L	50	49.8	100	60-140	
o-Xylene	ug/L	50	51.0	102	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	41.7	83	60-140	
Tetrachloroethene	ug/L	50	49.2	98	60-140	
Toluene	ug/L	50	50.4	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.2	104	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.7	109	60-140	
Trichloroethene	ug/L	50	52.3	105	60-140	
Trichlorofluoromethane	ug/L	50	46.8	94	60-140	
Vinyl chloride	ug/L	50	45.4	91	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			96	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Parameter	92525533003		MS	MSD	3195474		3195475		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.7	21.9	109	110	60-140	1			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	22.5	109	113	60-140	3			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.6	20.3	103	102	60-140	1			
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	20.3	98	102	60-140	3			
1,1-Dichloroethane	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2			
1,1-Dichloroethene	ug/L	ND	20	20	23.0	24.0	115	120	60-140	4			
1,1-Dichloropropene	ug/L	ND	20	20	22.2	22.3	111	111	60-140	0			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	19.0	100	95	60-140	5			
1,2,3-Trichloropropane	ug/L	ND	20	20	19.6	19.2	98	96	60-140	2			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.2	18.7	101	93	60-140	8			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.5	19.9	98	100	60-140	2			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.8	20.9	109	104	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.6	21.5	103	107	60-140	4			
1,2-Dichlorobenzene	ug/L	ND	20	20	19.3	18.9	96	94	60-140	2			
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.3	103	101	60-140	2			
1,2-Dichloropropane	ug/L	ND	20	20	22.2	23.4	111	117	60-140	5			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.8	19.7	99	98	60-140	0			
1,3-Dichlorobenzene	ug/L	ND	20	20	19.9	19.9	100	99	60-140	0			
1,3-Dichloropropane	ug/L	ND	20	20	20.8	21.1	104	105	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	18.7	95	94	60-140	2			
2,2-Dichloropropane	ug/L	ND	20	20	22.8	23.5	114	117	60-140	3			
2-Chlorotoluene	ug/L	ND	20	20	20.3	20.2	102	101	60-140	1			
4-Chlorotoluene	ug/L	ND	20	20	19.6	19.3	98	96	60-140	2			
Benzene	ug/L	1.2	20	20	22.6	23.1	107	110	60-140	2			
Bromobenzene	ug/L	ND	20	20	20.0	20.3	100	102	60-140	2			
Bromochloromethane	ug/L	ND	20	20	21.3	21.1	106	105	60-140	1			
Bromodichloromethane	ug/L	ND	20	20	19.9	20.9	99	104	60-140	5			
Bromoform	ug/L	ND	20	20	18.3	18.9	92	94	60-140	3			
Bromomethane	ug/L	ND	20	20	25.6	26.7	128	134	60-140	4			
Carbon tetrachloride	ug/L	ND	20	20	22.2	23.0	111	115	60-140	3			
Chlorobenzene	ug/L	ND	20	20	21.3	21.8	107	109	60-140	2			
Chloroethane	ug/L	ND	20	20	18.3	20.1	92	101	60-140	9			
Chloroform	ug/L	ND	20	20	21.3	21.0	107	105	60-140	2			
Chloromethane	ug/L	ND	20	20	16.1	15.8	80	79	60-140	2			
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.8	20.4	104	102	60-140	2			
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.3	21.8	111	109	60-140	2			
Dibromochloromethane	ug/L	ND	20	20	21.0	22.4	105	112	60-140	6			
Dibromomethane	ug/L	ND	20	20	21.2	20.5	106	102	60-140	3			
Dichlorodifluoromethane	ug/L	ND	20	20	11.6	11.6	58	58	60-140	0	M1		
Diisopropyl ether	ug/L	4.1	20	20	24.3	24.7	101	103	60-140	2			
Ethylbenzene	ug/L	ND	20	20	20.9	21.3	104	107	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	25.1	21.8	126	109	60-140	14			
Isopropylbenzene (Cumene)	ug/L	0.62	20	20	22.0	22.0	107	107	60-140	0			
m&p-Xylene	ug/L	ND	40	40	42.5	42.7	106	107	60-140	0			
Methyl-tert-butyl ether	ug/L	0.81	20	20	21.4	21.5	103	103	60-140	1			
Methylene Chloride	ug/L	ND	20	20	20.2	20.9	101	104	60-140	3			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Parameter	92525533003		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec					
n-Butylbenzene	ug/L	ND	20	20	21.6	19.9	108	99	60-140	8			
n-Propylbenzene	ug/L	ND	20	20	20.6	20.1	103	101	60-140	2			
Naphthalene	ug/L	ND	20	20	21.2	19.2	106	96	60-140	10			
o-Xylene	ug/L	ND	20	20	20.7	21.2	104	106	60-140	2			
sec-Butylbenzene	ug/L	ND	20	20	20.8	20.6	104	103	60-140	1			
Styrene	ug/L	ND	20	20	20.9	21.2	104	106	60-140	1			
tert-Butylbenzene	ug/L	ND	20	20	17.7	17.7	89	88	60-140	0			
Tetrachloroethene	ug/L	ND	20	20	21.3	22.3	106	111	60-140	4			
Toluene	ug/L	ND	20	20	21.4	21.2	107	106	60-140	1			
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.7	21.6	108	108	60-140	0			
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.5	21.7	107	108	60-140	1			
Trichloroethene	ug/L	ND	20	20	21.9	21.9	109	109	60-140	0			
Trichlorofluoromethane	ug/L	ND	20	20	22.0	21.8	110	109	60-140	1			
Vinyl chloride	ug/L	ND	20	20	17.1	18.0	86	90	60-140	5			
1,2-Dichloroethane-d4 (S)	%						101	99	70-130				
4-Bromofluorobenzene (S)	%						96	99	70-130				
Toluene-d8 (S)	%						99	99	70-130				

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

QC Batch: 606596

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526977008, 92526977015

METHOD BLANK: 3195938

Matrix: Water

Associated Lab Samples: 92526977008, 92526977015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/15/21 12:46	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/15/21 12:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/15/21 12:46	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/15/21 12:46	
1,1-Dichloroethane	ug/L	ND	0.50	03/15/21 12:46	
1,1-Dichloroethene	ug/L	ND	0.50	03/15/21 12:46	
1,1-Dichloropropene	ug/L	ND	0.50	03/15/21 12:46	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/15/21 12:46	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/15/21 12:46	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/15/21 12:46	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/15/21 12:46	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/15/21 12:46	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/15/21 12:46	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/15/21 12:46	
1,2-Dichloroethane	ug/L	ND	0.50	03/15/21 12:46	
1,2-Dichloropropane	ug/L	ND	0.50	03/15/21 12:46	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/15/21 12:46	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/15/21 12:46	
1,3-Dichloropropane	ug/L	ND	0.50	03/15/21 12:46	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/15/21 12:46	
2,2-Dichloropropane	ug/L	ND	0.50	03/15/21 12:46	
2-Chlorotoluene	ug/L	ND	0.50	03/15/21 12:46	
4-Chlorotoluene	ug/L	ND	0.50	03/15/21 12:46	
Benzene	ug/L	ND	0.50	03/15/21 12:46	
Bromobenzene	ug/L	ND	0.50	03/15/21 12:46	
Bromochloromethane	ug/L	ND	0.50	03/15/21 12:46	
Bromodichloromethane	ug/L	ND	0.50	03/15/21 12:46	
Bromoform	ug/L	ND	0.50	03/15/21 12:46	
Bromomethane	ug/L	ND	5.0	03/15/21 12:46	
Carbon tetrachloride	ug/L	ND	0.50	03/15/21 12:46	
Chlorobenzene	ug/L	ND	0.50	03/15/21 12:46	
Chloroethane	ug/L	ND	1.0	03/15/21 12:46	
Chloroform	ug/L	ND	0.50	03/15/21 12:46	
Chloromethane	ug/L	ND	1.0	03/15/21 12:46	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/15/21 12:46	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/15/21 12:46	
Dibromochloromethane	ug/L	ND	0.50	03/15/21 12:46	
Dibromomethane	ug/L	ND	0.50	03/15/21 12:46	
Dichlorodifluoromethane	ug/L	ND	0.50	03/15/21 12:46	
Diisopropyl ether	ug/L	ND	0.50	03/15/21 12:46	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

METHOD BLANK: 3195938

Matrix: Water

Associated Lab Samples: 92526977008, 92526977015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/15/21 12:46	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/15/21 12:46	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/15/21 12:46	
m&p-Xylene	ug/L	ND	1.0	03/15/21 12:46	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/15/21 12:46	
Methylene Chloride	ug/L	ND	2.0	03/15/21 12:46	
n-Butylbenzene	ug/L	ND	0.50	03/15/21 12:46	
n-Propylbenzene	ug/L	ND	0.50	03/15/21 12:46	
Naphthalene	ug/L	ND	2.0	03/15/21 12:46	
o-Xylene	ug/L	ND	0.50	03/15/21 12:46	
sec-Butylbenzene	ug/L	ND	0.50	03/15/21 12:46	
Styrene	ug/L	ND	0.50	03/15/21 12:46	
tert-Butylbenzene	ug/L	ND	0.50	03/15/21 12:46	
Tetrachloroethene	ug/L	ND	0.50	03/15/21 12:46	
Toluene	ug/L	ND	0.50	03/15/21 12:46	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/15/21 12:46	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/15/21 12:46	
Trichloroethene	ug/L	ND	0.50	03/15/21 12:46	
Trichlorofluoromethane	ug/L	ND	1.0	03/15/21 12:46	
Vinyl chloride	ug/L	ND	1.0	03/15/21 12:46	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/15/21 12:46	
4-Bromofluorobenzene (S)	%	102	70-130	03/15/21 12:46	
Toluene-d8 (S)	%	99	70-130	03/15/21 12:46	

LABORATORY CONTROL SAMPLE: 3195939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.6	109	60-140	
1,1,1-Trichloroethane	ug/L	50	47.9	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,2-Trichloroethane	ug/L	50	52.1	104	60-140	
1,1-Dichloroethane	ug/L	50	46.7	93	60-140	
1,1-Dichloroethene	ug/L	50	49.5	99	60-140	
1,1-Dichloropropene	ug/L	50	48.7	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.0	106	60-140	
1,2,3-Trichloropropane	ug/L	50	52.1	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.7	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.4	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	60-140	
1,2-Dichlorobenzene	ug/L	50	49.8	100	60-140	
1,2-Dichloroethane	ug/L	50	47.9	96	60-140	
1,2-Dichloropropane	ug/L	50	48.5	97	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.5	101	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

LABORATORY CONTROL SAMPLE: 3195939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.4	99	60-140	
1,3-Dichloropropane	ug/L	50	52.1	104	60-140	
1,4-Dichlorobenzene	ug/L	50	47.6	95	60-140	
2,2-Dichloropropane	ug/L	50	49.3	99	60-140	
2-Chlorotoluene	ug/L	50	49.3	99	60-140	
4-Chlorotoluene	ug/L	50	48.0	96	60-140	
Benzene	ug/L	50	48.4	97	60-140	
Bromobenzene	ug/L	50	46.9	94	60-140	
Bromochloromethane	ug/L	50	49.2	98	60-140	
Bromodichloromethane	ug/L	50	50.7	101	60-140	
Bromoform	ug/L	50	46.4	93	60-140	
Bromomethane	ug/L	50	41.2	82	60-140	
Carbon tetrachloride	ug/L	50	51.6	103	60-140	
Chlorobenzene	ug/L	50	50.1	100	60-140	
Chloroethane	ug/L	50	41.2	82	60-140	
Chloroform	ug/L	50	45.9	92	60-140	
Chloromethane	ug/L	50	37.9	76	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.9	108	60-140	
Dibromochloromethane	ug/L	50	56.5	113	60-140	
Dibromomethane	ug/L	50	51.5	103	60-140	
Dichlorodifluoromethane	ug/L	50	46.1	92	60-140	
Diisopropyl ether	ug/L	50	45.2	90	60-140	
Ethylbenzene	ug/L	50	50.5	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	51.5	103	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.8	104	60-140	
m&p-Xylene	ug/L	100	100	100	60-140	
Methyl-tert-butyl ether	ug/L	50	48.1	96	60-140	
Methylene Chloride	ug/L	50	41.7	83	60-140	
n-Butylbenzene	ug/L	50	54.3	109	60-140	
n-Propylbenzene	ug/L	50	48.1	96	60-140	
Naphthalene	ug/L	50	52.9	106	60-140	
o-Xylene	ug/L	50	50.8	102	60-140	
sec-Butylbenzene	ug/L	50	50.1	100	60-140	
Styrene	ug/L	50	50.4	101	60-140	
tert-Butylbenzene	ug/L	50	40.0	80	60-140	
Tetrachloroethene	ug/L	50	51.1	102	60-140	
Toluene	ug/L	50	48.6	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.6	105	60-140	
Trichloroethene	ug/L	50	49.7	99	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	41.0	82	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Parameter	92526851003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	<77.8	5000	5000	6130	6230	123	125	60-140	2				
1,1,1-Trichloroethane	ug/L	<83.0	5000	5000	5930	6010	119	120	60-140	1				
1,1,2,2-Tetrachloroethane	ug/L	<56.2	5000	5000	6070	6250	121	125	60-140	3				
1,1,2-Trichloroethane	ug/L	<81.2	5000	5000	5980	6220	120	124	60-140	4				
1,1-Dichloroethane	ug/L	<91.8	5000	5000	5720	6060	114	121	60-140	6				
1,1-Dichloroethene	ug/L	<87.0	5000	5000	6080	6310	122	126	60-140	4				
1,1-Dichloropropene	ug/L	<107	5000	5000	6170	6370	123	127	60-140	3				
1,2,3-Trichlorobenzene	ug/L	<202	5000	5000	5530	5810	111	116	60-140	5				
1,2,3-Trichloropropane	ug/L	<65.2	5000	5000	5980	6200	120	124	60-140	4				
1,2,4-Trichlorobenzene	ug/L	<160	5000	5000	5410	6040	108	121	60-140	11				
1,2,4-Trimethylbenzene	ug/L	1660	5000	5000	7550	7840	118	124	60-140	4				
1,2-Dibromo-3-chloropropane	ug/L	<85.0	5000	5000	6010	6080	120	122	60-140	1				
1,2-Dibromoethane (EDB)	ug/L	<68.0	5000	5000	6580	6840	132	137	60-140	4				
1,2-Dichlorobenzene	ug/L	<84.8	5000	5000	5520	5780	110	116	60-140	5				
1,2-Dichloroethane	ug/L	535	5000	5000	6210	6510	113	120	60-140	5				
1,2-Dichloropropane	ug/L	<88.8	5000	5000	5730	6240	115	125	60-140	8				
1,3,5-Trimethylbenzene	ug/L	459	5000	5000	6190	6480	115	121	60-140	5				
1,3-Dichlorobenzene	ug/L	<85.0	5000	5000	5640	6020	113	120	60-140	6				
1,3-Dichloropropane	ug/L	<71.0	5000	5000	6090	6380	122	128	60-140	5				
1,4-Dichlorobenzene	ug/L	<83.2	5000	5000	5610	5820	112	116	60-140	4				
2,2-Dichloropropane	ug/L	<97.0	5000	5000	5610	5790	112	116	60-140	3				
2-Chlorotoluene	ug/L	<80.2	5000	5000	5450	5660	109	113	60-140	4				
4-Chlorotoluene	ug/L	<81.0	5000	5000	5660	5780	113	116	60-140	2				
Benzene	ug/L	29900	5000	5000	35100	38600	105	173	60-140	9	M1			
Bromobenzene	ug/L	<72.5	5000	5000	5550	5710	111	114	60-140	3				
Bromochloromethane	ug/L	<117	5000	5000	6010	6230	120	125	60-140	4				
Bromodichloromethane	ug/L	<76.8	5000	5000	5580	6090	112	122	60-140	9				
Bromoform	ug/L	<85.2	5000	5000	4920	5230	98	105	60-140	6				
Bromomethane	ug/L	<415	5000	5000	4490	5400	90	108	60-140	18				
Carbon tetrachloride	ug/L	<83.2	5000	5000	6280	6420	126	128	60-140	2				
Chlorobenzene	ug/L	<71.0	5000	5000	6040	6140	121	123	60-140	2				
Chloroethane	ug/L	<162	5000	5000	5340	5770	107	115	60-140	8				
Chloroform	ug/L	<88.2	5000	5000	5780	6100	116	122	60-140	5				
Chloromethane	ug/L	<135	5000	5000	4730	5250	95	105	60-140	10				
cis-1,2-Dichloroethene	ug/L	110J	5000	5000	5650	5800	111	114	60-140	3				
cis-1,3-Dichloropropene	ug/L	<91.2	5000	5000	6070	6410	121	128	60-140	5				
Dibromochloromethane	ug/L	<89.8	5000	5000	6090	6280	122	126	60-140	3				
Dibromomethane	ug/L	<98.5	5000	5000	5900	6390	118	128	60-140	8				
Dichlorodifluoromethane	ug/L	<86.5	5000	5000	5010	5160	100	103	60-140	3				
Diisopropyl ether	ug/L	<77.0	5000	5000	5240	5550	104	110	60-140	6				
Ethylbenzene	ug/L	1230	5000	5000	7230	7330	120	122	60-140	1				
Hexachloro-1,3-butadiene	ug/L	<382	5000	5000	5420	5880	108	118	60-140	8				
Isopropylbenzene (Cumene)	ug/L	<83.2	5000	5000	6100	6330	122	127	60-140	4				
m&p-Xylene	ug/L	5840	10000	10000	17600	18400	118	125	60-140	4				
Methyl-tert-butyl ether	ug/L	<106	5000	5000	5680	6020	114	120	60-140	6				
Methylene Chloride	ug/L	<488	5000	5000	4960	5290	99	106	60-140	7				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Parameter	92526851003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	<122	5000	5000	5780	6170	116	123	60-140	7				
n-Propylbenzene	ug/L	<85.0	5000	5000	5750	5940	115	119	60-140	3				
Naphthalene	ug/L	769	5000	5000	6340	6620	112	117	60-140	4				
o-Xylene	ug/L	2960	5000	5000	8860	9440	118	130	60-140	6				
sec-Butylbenzene	ug/L	<100	5000	5000	5770	6090	115	122	60-140	5				
Styrene	ug/L	<73.0	5000	5000	5910	6110	118	122	60-140	3				
tert-Butylbenzene	ug/L	<80.8	5000	5000	4770	4940	95	99	60-140	4				
Tetrachloroethene	ug/L	<73.0	5000	5000	6000	5990	120	120	60-140	0				
Toluene	ug/L	13800	5000	5000	19300	21300	110	149	60-140	10	M1			
trans-1,2-Dichloroethene	ug/L	<99.0	5000	5000	5800	5920	116	118	60-140	2				
trans-1,3-Dichloropropene	ug/L	<90.8	5000	5000	5640	6010	113	120	60-140	6				
Trichloroethene	ug/L	<95.8	5000	5000	5960	6450	119	129	60-140	8				
Trichlorofluoromethane	ug/L	<74.5	5000	5000	5770	5830	115	117	60-140	1				
Vinyl chloride	ug/L	<96.5	5000	5000	5020	5300	100	106	60-140	6				
1,2-Dichloroethane-d4 (S)	%						97	97	70-130					
4-Bromofluorobenzene (S)	%						102	98	70-130					
Toluene-d8 (S)	%						98	98	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

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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.

### ANALYTE QUALIFIERS

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526977001	MW-05	MADEPV	1634105	MADEP VPH	1634105
92526977002	MW-07	MADEPV	1634105	MADEP VPH	1634105
92526977003	MW-20	MADEPV	1634767	MADEP VPH	1634767
92526977004	MW-25	MADEPV	1634105	MADEP VPH	1634105
92526977005	MW-25D	MADEPV	1634105	MADEP VPH	1634105
92526977006	MW-27	MADEPV	1634105	MADEP VPH	1634105
92526977007	MW-36	MADEPV	1634105	MADEP VPH	1634105
92526977008	MW-38	MADEPV	1634767	MADEP VPH	1634767
92526977009	MW-53	MADEPV	1634105	MADEP VPH	1634105
92526977010	MW-61D	MADEPV	1634105	MADEP VPH	1634105
92526977011	MW-59D	MADEPV	1634105	MADEP VPH	1634105
92526977012	MW-63	MADEPV	1634105	MADEP VPH	1634105
92526977013	MW-72	MADEPV	1634105	MADEP VPH	1634105
92526977014	EB-1-20210310	MADEPV	1634105	MADEP VPH	1634105
92526977015	DUP-1-20210310	MADEPV	1634105	MADEP VPH	1634105
92526977001	MW-05	EPA 3010A	606418	EPA 6010D	606440
92526977002	MW-07	EPA 3010A	606418	EPA 6010D	606440
92526977003	MW-20	EPA 3010A	606418	EPA 6010D	606440
92526977004	MW-25	EPA 3010A	606418	EPA 6010D	606440
92526977005	MW-25D	EPA 3010A	606418	EPA 6010D	606440
92526977006	MW-27	EPA 3010A	606418	EPA 6010D	606440
92526977007	MW-36	EPA 3010A	606418	EPA 6010D	606440
92526977008	MW-38	EPA 3010A	606418	EPA 6010D	606440
92526977009	MW-53	EPA 3010A	606418	EPA 6010D	606440
92526977010	MW-61D	EPA 3010A	606418	EPA 6010D	606440
92526977011	MW-59D	EPA 3010A	606418	EPA 6010D	606440
92526977012	MW-63	EPA 3010A	606418	EPA 6010D	606440
92526977013	MW-72	EPA 3010A	606418	EPA 6010D	606440
92526977014	EB-1-20210310	EPA 3010A	606418	EPA 6010D	606440
92526977015	DUP-1-20210310	EPA 3010A	606418	EPA 6010D	606440
92526977001	MW-05	SM 6200B	606279		
92526977002	MW-07	SM 6200B	606279		
92526977003	MW-20	SM 6200B	606279		
92526977004	MW-25	SM 6200B	606279		
92526977005	MW-25D	SM 6200B	606279		
92526977006	MW-27	SM 6200B	606279		
92526977007	MW-36	SM 6200B	606279		
92526977008	MW-38	SM 6200B	606596		
92526977009	MW-53	SM 6200B	606279		
92526977010	MW-61D	SM 6200B	606279		
92526977011	MW-59D	SM 6200B	606279		
92526977012	MW-63	SM 6200B	606279		
92526977013	MW-72	SM 6200B	606279		
92526977014	EB-1-20210310	SM 6200B	606352		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526977015	DUP-1-20210310	SM 6200B	606596		
92526977016	Trip Blank	SM 6200B	606352		
92526977017	Trip Blank	SM 6200B	606352		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM**

Billing Information:

Address: **6000 Fernview Rd. Suite 200  
Houston TX 77050**

Email To: **Andrew Wineschilling@aecom.com**

Report To: **Andrew Wineschilling**

Site Collection Info/Address:

Customer Project Name/Number: **Colonial Pipeline**

State: / Country/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone: **(714) 522-0330**

Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No

Collected By (print):

Purchase Order #: DW PWS ID #: DW Location Code:

Collected By (signature):

Turnaround Date Required: Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day

Field Filtered (if applicable): [ ] Yes [ ] No  
Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MM-05	WT	G			3/14/21	1425		8
MM-07						1055		X
MM-20						1313		X
MM-25						1421		X
MM-25D						1542		X
MM-27						1250		X
MM-36						1600		X
MM-38						1305		X
MM-53						1545		X
MM-61D						1545		X

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: **Wet** Blue Dry None

Packing Material Used: **P.B.**

Radchem sample(s) screened (<500 cpm): Y N **NA**

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
<b>Ymily R. Jare / AECOM</b>	<b>3/14/21</b>	<b>MD C. HVL</b>	<b>3-10-21 18:00</b>
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

LAB USE ONLY - Affix

ALL

Container Present



MO#: 92526977

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VDA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

92526977

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: **92526977**

Cooler 1 Temp Upon Receipt: **4.13C**

Cooler 1 Therm Corr. Factor: **0.00C**

Cooler 1 Corrected Temp: **4.130C**

Comments:

Temp Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): Page: **1** of: **2**



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM**

Address: **6000 Parkway Rd. Suite 200  
Charlotte, NC 28210**

Report To: **Andrew Wreschwig**

Copy To:

Customer Project Name/Number: **Colonial Pipeline**

Phone: **(704) 522-0330**

Email: **Andrew.Wreschwig@AECOM.com**

Collected By (print):

Collected By (signature):

Site/Facility ID #:

Purchase Order #:

Quote #:

Turnaround Date Required:

Sample Disposal:  
 Return  
 Archive  
 Hold

Rush:  
 Same Day  
 2 Day  
 3 Day  
 4 Day  
 5 Day

Field Filtered (if applicable):  
 Yes  
 No

Analysis:

Time Zone Collected:  
 PT  MT  CT  ET

Compliance Monitoring?  
 Yes  No

DW PWS ID #:

DW Location Code:

Immediately Packed on Ice:  
 Yes  No

State: / County/City: Time Zone Collected:

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID

Matrix \*

Comp / Grab

Collected (or Composite Start) Date Time

Composite End Date Time

Res Cl

# of Chms

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: **Wet** Blue Dry None

Packing Material Used: **65**

Radchem sample(s) screened (<500 cpm): Y N **NA**

Relinquished by/Company: (Signature) **Emily R. Jone / AECOM**

Date/Time: **3/10/21**

Received by/Company: (Signature) **MADREACH VL 3-10-21/8:00**

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

LAB USE ONLY

**MO# : 92526977**

PM: **NMG** Due Date: **03/17/21**

AI CLIENT: **92-AECOM CHA**

Container Pre: **3 3 1**

Analyses:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VDA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date Time	Composite End Date Time	Res Cl	# of Chms	LAB USE ONLY: Lab Sample # / Comments:
MM-591D	WT	G	3/10/21 11:15	10:40	8	XX	92526977 011
MM-63				15:35		XX	012
MM-72				17:00		XX	013
DWP-1-20210310							014
Trip Blank							015
Trip Blank							016
Trip Blank							017

SHORT HOLDS PRESENT (<72 hours): **N** N/A

Lab Tracking #: **2618819**

Samples received via: **Client** Courier Pace Courier

FEDEX UPS

Table #: **MTL LAB USE ONLY**

Actnum: **Y** N NA

Template: **Y** N NA

Prelogin: **Y** N NA

PB: **Y** N NA

Temp Blank Received: **Y** N NA

Therm ID#: **70164**

Cooler 1 Temp Upon Receipt: **4.1°C**

Cooler 1 Therm Corr. Factor: **0.0** °C

Cooler 1 Corrected Temp: **4.13°C**

Comments:

Temp Blank Received: **Y** N NA

Therm ID#: **70164**

Cooler 1 Temp Upon Receipt: **4.1°C**

Cooler 1 Therm Corr. Factor: **0.0** °C

Cooler 1 Corrected Temp: **4.13°C**

Comments:

Temp Blank Received: **Y** N NA

Therm ID#: **70164**

Cooler 1 Temp Upon Receipt: **4.1°C**

Cooler 1 Therm Corr. Factor: **0.0** °C

Cooler 1 Corrected Temp: **4.13°C**

Comments:

March 15, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526989

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526989

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### 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

### Pace Analytical Services Asheville

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

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

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526989

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526989001	MW-66	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92526989002	FB-1-20210310	MADEP VPH	ACG	6	PAN
		SM 6200B	SAS	63	PASI-C
92526989003	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526989

Sample: MW-66	Lab ID: 92526989001	Collected: 03/10/21 10:30	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 15:22	03/13/21 15:22		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 15:22	03/13/21 15:22		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 15:22	03/13/21 15:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 15:22	03/13/21 15:22	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	80.2	%	70.0-130	1	03/13/21 15:22	03/13/21 15:22	615-59-8FID	
2,5-Dibromotoluene (PID)	83.8	%	70.0-130	1	03/13/21 15:22	03/13/21 15:22	615-59-8PID	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	5.9	ug/L	5.0	1	03/12/21 02:20	03/12/21 15:55	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 01:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 01:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 01:13	74-97-5	
Bromodichloromethane	2.2	ug/L	0.50	1		03/12/21 01:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 01:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 01:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 01:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 01:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 01:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 01:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 01:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 01:13	75-00-3	
Chloroform	8.5	ug/L	0.50	1		03/12/21 01:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 01:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 01:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 01:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 01:13	96-12-8	
Dibromochloromethane	0.55	ug/L	0.50	1		03/12/21 01:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 01:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 01:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 01:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 01:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 01:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 01:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 01:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 01:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 01:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 01:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 01:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 01:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 01:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 01:13	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526989

Sample: MW-66	Lab ID: 92526989001	Collected: 03/10/21 10:30	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 01:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 01:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 01:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 01:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 01:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 01:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 01:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 01:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 01:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 01:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 01:13	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 01:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 01:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 01:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 01:13	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 01:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 01:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 01:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 01:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 01:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 01:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 01:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 01:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 01:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 01:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 01:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 01:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 01:13	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/12/21 01:13	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		03/12/21 01:13	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/12/21 01:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526989

Sample: <b>FB-1-20210310</b>	Lab ID: <b>92526989002</b>	Collected: 03/10/21 16:40	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	03/13/21 13:40	03/13/21 13:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	03/13/21 13:40	03/13/21 13:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	03/13/21 13:40	03/13/21 13:40	TPHC9C10A	
Total VPH	ND	ug/L	100	1	03/13/21 13:40	03/13/21 13:40	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	84.8	%	70.0-130	1	03/13/21 13:40	03/13/21 13:40	615-59-8FID	
2,5-Dibromotoluene (PID)	83.4	%	70.0-130	1	03/13/21 13:40	03/13/21 13:40	615-59-8PID	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/11/21 23:25	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 23:25	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 23:25	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 23:25	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 23:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 23:25	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 23:25	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 23:25	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 23:25	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 23:25	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 23:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 23:25	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 23:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 23:25	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 23:25	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 23:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 23:25	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 23:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 23:25	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 23:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 23:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 23:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 23:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 23:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 23:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 23:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 23:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 23:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 23:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 23:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 23:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 23:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 23:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 23:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 23:25	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 23:25	108-20-3	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526989

Sample: <b>FB-1-20210310</b>	Lab ID: <b>92526989002</b>	Collected: 03/10/21 16:40	Received: 03/10/21 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 23:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 23:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 23:25	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 23:25	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 23:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 23:25	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 23:25	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 23:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 23:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 23:25	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 23:25	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 23:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 23:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 23:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 23:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 23:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 23:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 23:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 23:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 23:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 23:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 23:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 23:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 23:25	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/11/21 23:25	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		03/11/21 23:25	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		03/11/21 23:25	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526989

Sample: Trip Blank		Lab ID: 92526989003	Collected: 03/10/21 00:00	Received: 03/10/21 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/11/21 23:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/11/21 23:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/11/21 23:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/11/21 23:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/11/21 23:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/11/21 23:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/11/21 23:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/11/21 23:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/11/21 23:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/11/21 23:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/11/21 23:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/11/21 23:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/11/21 23:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/11/21 23:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 23:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/11/21 23:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/11/21 23:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/11/21 23:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/11/21 23:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/11/21 23:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 23:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 23:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/11/21 23:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/11/21 23:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/11/21 23:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/11/21 23:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/11/21 23:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 23:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/11/21 23:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 23:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/11/21 23:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/11/21 23:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/11/21 23:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 23:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/11/21 23:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/11/21 23:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/11/21 23:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/11/21 23:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/11/21 23:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/11/21 23:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/11/21 23:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/11/21 23:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/11/21 23:43	103-65-1	
Styrene	ND	ug/L	0.50	1		03/11/21 23:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 23:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/11/21 23:43	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526989

Sample: Trip Blank		Lab ID: 92526989003	Collected: 03/10/21 00:00	Received: 03/10/21 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/11/21 23:43	127-18-4	
Toluene	ND	ug/L	0.50	1		03/11/21 23:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 23:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/11/21 23:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/11/21 23:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/11/21 23:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/11/21 23:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/11/21 23:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/11/21 23:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 23:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/11/21 23:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/11/21 23:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/11/21 23:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/11/21 23:43	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/11/21 23:43	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		03/11/21 23:43	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/11/21 23:43	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526989

QC Batch: 1634105	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92526989001, 92526989002

METHOD BLANK: R3630737-3 Matrix: Water

Associated Lab Samples: 92526989001, 92526989002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	03/13/21 12:54	
Aliphatic (C09-C12)	ug/L	ND	100	03/13/21 12:54	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	03/13/21 12:54	
Total VPH	ug/L	ND	100	03/13/21 12:54	
2,5-Dibromotoluene (FID)	%	92.2	70.0-130	03/13/21 12:54	
2,5-Dibromotoluene (PID)	%	93.1	70.0-130	03/13/21 12:54	

LABORATORY CONTROL SAMPLE & LCSD: R3630737-1 R3630737-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1110	1100	92.5	91.7	70.0-130	0.905	25	
Aliphatic (C09-C12)	ug/L	1400	1200	1220	85.7	87.1	70.0-130	1.65	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	233	217	117	108	70.0-130	7.11	25	
Total VPH	ug/L	2800	2540	2540	90.7	90.7	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				87.2	95.8	70.0-130			
2,5-Dibromotoluene (PID)	%				89.4	98.1	70.0-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526989

QC Batch: 606129	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526989001

METHOD BLANK: 3193371 Matrix: Water  
Associated Lab Samples: 92526989001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/12/21 15:10	

LABORATORY CONTROL SAMPLE: 3193372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193373 3193374

Parameter	Units	92526300006		3193374		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	477	478	95	95	75-125	0

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526989

QC Batch: 605982 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92526989001, 92526989002, 92526989003

METHOD BLANK: 3192559 Matrix: Water  
Associated Lab Samples: 92526989001, 92526989002, 92526989003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
1,1-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/11/21 23:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloroethane	ug/L	ND	0.50	03/11/21 23:07	
1,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
1,3-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
2,2-Dichloropropane	ug/L	ND	0.50	03/11/21 23:07	
2-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
4-Chlorotoluene	ug/L	ND	0.50	03/11/21 23:07	
Benzene	ug/L	ND	0.50	03/11/21 23:07	
Bromobenzene	ug/L	ND	0.50	03/11/21 23:07	
Bromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromodichloromethane	ug/L	ND	0.50	03/11/21 23:07	
Bromoform	ug/L	ND	0.50	03/11/21 23:07	
Bromomethane	ug/L	ND	5.0	03/11/21 23:07	
Carbon tetrachloride	ug/L	ND	0.50	03/11/21 23:07	
Chlorobenzene	ug/L	ND	0.50	03/11/21 23:07	
Chloroethane	ug/L	ND	1.0	03/11/21 23:07	
Chloroform	ug/L	ND	0.50	03/11/21 23:07	
Chloromethane	ug/L	ND	1.0	03/11/21 23:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Dibromochloromethane	ug/L	ND	0.50	03/11/21 23:07	
Dibromomethane	ug/L	ND	0.50	03/11/21 23:07	
Dichlorodifluoromethane	ug/L	ND	0.50	03/11/21 23:07	
Diisopropyl ether	ug/L	ND	0.50	03/11/21 23:07	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)

Pace Project No.: 92526989

METHOD BLANK: 3192559

Matrix: Water

Associated Lab Samples: 92526989001, 92526989002, 92526989003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/11/21 23:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/11/21 23:07	
m&p-Xylene	ug/L	ND	1.0	03/11/21 23:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/11/21 23:07	
Methylene Chloride	ug/L	ND	2.0	03/11/21 23:07	
n-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
n-Propylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Naphthalene	ug/L	ND	2.0	03/11/21 23:07	
o-Xylene	ug/L	ND	0.50	03/11/21 23:07	
sec-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Styrene	ug/L	ND	0.50	03/11/21 23:07	
tert-Butylbenzene	ug/L	ND	0.50	03/11/21 23:07	
Tetrachloroethene	ug/L	ND	0.50	03/11/21 23:07	
Toluene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/11/21 23:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/11/21 23:07	
Trichloroethene	ug/L	ND	0.50	03/11/21 23:07	
Trichlorofluoromethane	ug/L	ND	1.0	03/11/21 23:07	
Vinyl chloride	ug/L	ND	1.0	03/11/21 23:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/11/21 23:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/11/21 23:07	
Toluene-d8 (S)	%	100	70-130	03/11/21 23:07	

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	60-140	
1,1,1-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,2-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	46.5	93	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	46.6	93	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.9	88	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane	ug/L	50	46.7	93	60-140	
1,2-Dichloropropane	ug/L	50	48.0	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526989

LABORATORY CONTROL SAMPLE: 3192560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.3	93	60-140	
1,3-Dichloropropane	ug/L	50	48.1	96	60-140	
1,4-Dichlorobenzene	ug/L	50	44.5	89	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	47.5	95	60-140	
4-Chlorotoluene	ug/L	50	44.3	89	60-140	
Benzene	ug/L	50	48.6	97	60-140	
Bromobenzene	ug/L	50	49.5	99	60-140	
Bromochloromethane	ug/L	50	51.3	103	60-140	
Bromodichloromethane	ug/L	50	46.9	94	60-140	
Bromoform	ug/L	50	47.7	95	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	54.3	109	60-140	
Chlorobenzene	ug/L	50	47.5	95	60-140	
Chloroethane	ug/L	50	44.7	89	60-140	
Chloroform	ug/L	50	48.4	97	60-140	
Chloromethane	ug/L	50	37.6	75	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	60-140	
Dibromochloromethane	ug/L	50	53.7	107	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	45.8	92	60-140	
Ethylbenzene	ug/L	50	45.5	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	60-140	
m&p-Xylene	ug/L	100	94.1	94	60-140	
Methyl-tert-butyl ether	ug/L	50	49.0	98	60-140	
Methylene Chloride	ug/L	50	45.2	90	60-140	
n-Butylbenzene	ug/L	50	42.1	84	60-140	
n-Propylbenzene	ug/L	50	44.4	89	60-140	
Naphthalene	ug/L	50	46.8	94	60-140	
o-Xylene	ug/L	50	46.7	93	60-140	
sec-Butylbenzene	ug/L	50	42.4	85	60-140	
Styrene	ug/L	50	48.8	98	60-140	
tert-Butylbenzene	ug/L	50	38.0	76	60-140	
Tetrachloroethene	ug/L	50	47.9	96	60-140	
Toluene	ug/L	50	48.6	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	60-140	
Trichloroethene	ug/L	50	49.8	100	60-140	
Trichlorofluoromethane	ug/L	50	43.6	87	60-140	
Vinyl chloride	ug/L	50	40.1	80	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			106	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526989

Parameter	92526257003		MS	MSD	3192561		3192562		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	441	426	110	106	60-140	3			
1,1,1-Trichloroethane	ug/L	ND	400	400	439	437	110	109	60-140	0			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	420	400	105	100	60-140	5			
1,1,2-Trichloroethane	ug/L	ND	400	400	427	400	107	100	60-140	6			
1,1-Dichloroethane	ug/L	ND	400	400	421	425	105	106	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	481	456	120	114	60-140	5			
1,1-Dichloropropene	ug/L	ND	400	400	416	421	104	105	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	327	356	82	89	60-140	9			
1,2,3-Trichloropropane	ug/L	ND	400	400	394	378	99	95	60-140	4			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	346	361	86	90	60-140	4			
1,2,4-Trimethylbenzene	ug/L	148	400	400	537	531	97	96	60-140	1			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	424	409	106	102	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	449	416	112	104	60-140	8			
1,2-Dichlorobenzene	ug/L	ND	400	400	391	392	98	98	60-140	0			
1,2-Dichloroethane	ug/L	ND	400	400	402	411	101	103	60-140	2			
1,2-Dichloropropane	ug/L	ND	400	400	469	427	117	107	60-140	9			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	432	413	108	103	60-140	4			
1,3-Dichlorobenzene	ug/L	ND	400	400	410	401	103	100	60-140	2			
1,3-Dichloropropane	ug/L	ND	400	400	417	425	104	106	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	400	400	383	380	96	95	60-140	1			
2,2-Dichloropropane	ug/L	ND	400	400	355	358	89	89	60-140	1			
2-Chlorotoluene	ug/L	ND	400	400	411	417	103	104	60-140	1			
4-Chlorotoluene	ug/L	ND	400	400	399	382	100	96	60-140	4			
Benzene	ug/L	2140	400	400	2580	2600	111	114	60-140	1			
Bromobenzene	ug/L	ND	400	400	435	417	109	104	60-140	4			
Bromochloromethane	ug/L	ND	400	400	436	412	109	103	60-140	6			
Bromodichloromethane	ug/L	ND	400	400	419	405	105	101	60-140	4			
Bromoform	ug/L	ND	400	400	381	362	95	91	60-140	5			
Bromomethane	ug/L	ND	400	400	466	515	117	129	60-140	10			
Carbon tetrachloride	ug/L	ND	400	400	449	434	112	108	60-140	4			
Chlorobenzene	ug/L	ND	400	400	441	427	110	107	60-140	3			
Chloroethane	ug/L	ND	400	400	405	390	101	98	60-140	4			
Chloroform	ug/L	ND	400	400	438	424	109	106	60-140	3			
Chloromethane	ug/L	ND	400	400	366	367	92	92	60-140	0			
cis-1,2-Dichloroethene	ug/L	ND	400	400	406	409	101	102	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	433	421	108	105	60-140	3			
Dibromochloromethane	ug/L	ND	400	400	442	426	110	106	60-140	4			
Dibromomethane	ug/L	ND	400	400	442	444	110	111	60-140	1			
Dichlorodifluoromethane	ug/L	ND	400	400	404	390	101	97	60-140	4			
Diisopropyl ether	ug/L	227	400	400	627	627	100	100	60-140	0			
Ethylbenzene	ug/L	151	400	400	579	569	107	105	60-140	2			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	384	395	96	99	60-140	3			
Isopropylbenzene (Cumene)	ug/L	ND	400	400	429	410	107	103	60-140	5			
m&p-Xylene	ug/L	838	800	800	1750	1730	115	112	60-140	1			
Methyl-tert-butyl ether	ug/L	65.7	400	400	477	466	103	100	60-140	2			
Methylene Chloride	ug/L	ND	400	400	414	407	98	96	60-140	2			

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: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526989

Parameter	92526257003		MS	MSD	3192561		3192562		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
n-Butylbenzene	ug/L	ND	400	400	369	356	92	89	60-140		4		
n-Propylbenzene	ug/L	ND	400	400	413	396	103	99	60-140		4		
Naphthalene	ug/L	155	400	400	394	411	60	64	60-140		4		
o-Xylene	ug/L	465	400	400	915	910	113	111	60-140		1		
sec-Butylbenzene	ug/L	ND	400	400	408	389	102	97	60-140		5		
Styrene	ug/L	ND	400	400	424	411	106	103	60-140		3		
tert-Butylbenzene	ug/L	ND	400	400	367	349	92	87	60-140		5		
Tetrachloroethene	ug/L	ND	400	400	421	414	105	104	60-140		2		
Toluene	ug/L	2440	400	400	2870	2880	109	109	60-140		0		
trans-1,2-Dichloroethene	ug/L	ND	400	400	424	418	106	104	60-140		1		
trans-1,3-Dichloropropene	ug/L	ND	400	400	417	413	104	103	60-140		1		
Trichloroethene	ug/L	ND	400	400	451	427	113	107	60-140		6		
Trichlorofluoromethane	ug/L	ND	400	400	446	440	112	110	60-140		1		
Vinyl chloride	ug/L	ND	400	400	405	404	101	101	60-140		0		
1,2-Dichloroethane-d4 (S)	%						98	97	70-130				
4-Bromofluorobenzene (S)	%						99	99	70-130				
Toluene-d8 (S)	%						99	97	70-130				

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: Colonial Pipeline (3/10/21)

Pace Project No.: 92526989

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/10/21)  
Pace Project No.: 92526989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526989001	MW-66	MADEPV	1634105	MADEP VPH	1634105
92526989002	FB-1-20210310	MADEPV	1634105	MADEP VPH	1634105
92526989001	MW-66	EPA 3010A	606129	EPA 6010D	606150
92526989001	MW-66	SM 6200B	605982		
92526989002	FB-1-20210310	SM 6200B	605982		
92526989003	Trip Blank	SM 6200B	605982		

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM** Billing Information: \_\_\_\_\_

Address: **6000 Fairview Rd, Suite 200  
Charlotte, NC 28228**

Report To: **Andrew Wrsching** Email To: **andy.wrsching@aecom.com**

Copy To: \_\_\_\_\_ Site Collection Info/Address: \_\_\_\_\_

Customer Project Name/Number: **Colonial Pipeline** State: \_\_\_\_\_ County/City: \_\_\_\_\_ Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone: **(704) 522-0330** Site/Facility ID #: \_\_\_\_\_ Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): \_\_\_\_\_ Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_

Collected By (signature): \_\_\_\_\_ Turnaround Date Required: \_\_\_\_\_ Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: \_\_\_\_\_ Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day Field Filtered (if applicable): [ ] Yes [ ] No

[ ] Archive: \_\_\_\_\_ Analysis: \_\_\_\_\_ [ ] Hold: \_\_\_\_\_ (Expedite Charges Apply)

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chms
			Date	Time	Date	Time		
MM-166	WT	G			3/10/21	1030		8
FB-1-20210510	J	I			1640			7
TRP BLANK								1

LAB USE ONLY - Affix Workor

ALL SHADEI

Container Preservative Type

2 3 1  
 \*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line: \_\_\_\_\_

Lab Sample Receipt Checklist:

Custody seals Present/Intact Y  N  NA   
 Custody Signatures Present Y  N  NA   
 Collector Signatures Present Y  N  NA   
 Bottles Intact Y  N  NA   
 Correct Bottles Y  N  NA   
 Sufficient Volume Y  N  NA   
 Samples Received on Ice Y  N  NA   
 VOA - Headspace Acceptable Y  N  NA   
 USDA Regulated Soils Y  N  NA   
 Samples in Holding Time Residual Chlorine Present Y  N  NA   
 Cl Strips: Y  N  NA   
 Sample pH Acceptable Y  N  NA   
 pH Strips: **0.3-1.4** Y  N  NA   
 Sulfide Present Y  N  NA   
 Lead Acetate Strips: Y  N  NA

LAB USE ONLY: Lab sample # / comments: 92526989

001  
002  
003

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: **bbvkr bags**

Raddchem sample(s) screened (<500 cpm): Y N  NA

Relinquished by/Company: (Signature) **Emily D-Jone / AECOM** Date/Time: **3/10/21** Received by/Company: (Signature) **MDG POA HVL** Date/Time: **3-10-21 18:00**

SHORT HOLDS PRESENT (<72 hours): Y  N  NA

Lab Tracking #: **2618820**

Samples received via: FEDEX UPS Client  Courier  Pace Courier

Table #: \_\_\_\_\_ MTL LAB USE ONLY

Lab Sample Temperature Info: Temp Blank Received: Y  N  NA  
 Therm ID#: **92526989**  
 Cooler 1 Temp Upon Receipt: **1.0** oC  
 Cooler 1 Therm Corr. Factor: **0.0** oC  
 Cooler 1 Corrected Temp: **1.0** oC

Comments: \_\_\_\_\_

Non Conformance(s): \_\_\_\_\_ Page: \_\_\_\_\_ of: \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

March 18, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

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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

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 ANALYTE COUNT

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527326001	MW-79D	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527326002	MW-81	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527326003	MW-82	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527326004	MW-83	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527326005	MW-84	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527326006	FB-1-20210311	MADEP VPH	LMB	6	PASI-C
		SM 6200B	SAS	63	PASI-C
92527326007	Trip Blank	SM 6200B	SAS	63	PASI-C
92527326008	EB-1-20210311	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: MW-79D	Lab ID: 92527326001	Collected: 03/11/21 13:55	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/12/21 20:43		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/12/21 20:43		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/12/21 20:43		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/12/21 20:43		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	104	%	70-130	1		03/12/21 20:43	460-00-4	
4-Bromofluorobenzene (PID) (S)	104	%	70-130	1		03/12/21 20:43	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>10.8</b>	ug/L	5.0	1	03/16/21 01:45	03/16/21 09:35	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 01:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 01:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 01:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 01:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 01:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 01:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 01:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 01:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 01:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 01:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 01:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 01:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 01:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 01:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 01:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 01:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 01:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 01:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 01:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 01:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:27	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: MW-79D	Lab ID: 92527326001	Collected: 03/11/21 13:55	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 01:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 01:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 01:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 01:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 01:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 01:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 01:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 01:27	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 01:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 01:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 01:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 01:27	127-18-4	
Toluene	7.2	ug/L	0.50	1		03/13/21 01:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 01:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 01:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 01:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 01:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 01:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 01:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 01:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 01:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 01:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 01:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 01:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 01:27	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/13/21 01:27	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/13/21 01:27	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		03/13/21 01:27	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

Sample: MW-81	Lab ID: 92527326002	Collected: 03/11/21 10:10	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	1640	ug/L	50.0	1		03/12/21 21:11		N2
Aliphatic (C09-C12)	263	ug/L	50.0	1		03/12/21 21:11		N2
Aliphatic(C09-C12) Adjusted	170	ug/L	50.0	1		03/12/21 21:11		N2
Aromatic (C09-C10)	93.5	ug/L	50.0	1		03/12/21 21:11		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	107	%	70-130	1		03/12/21 21:11	460-00-4	
4-Bromofluorobenzene (PID) (S)	105	%	70-130	1		03/12/21 21:11	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 09:38	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	3.5	ug/L	0.50	1		03/12/21 22:48	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 22:48	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 22:48	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 22:48	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 22:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 22:48	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 22:48	104-51-8	M1
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 22:48	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 22:48	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 22:48	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 22:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 22:48	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 22:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 22:48	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 22:48	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 22:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 22:48	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 22:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 22:48	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 22:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 22:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 22:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 22:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 22:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 22:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 22:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 22:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 22:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 22:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 22:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 22:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 22:48	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: MW-81	Lab ID: 92527326002	Collected: 03/11/21 10:10	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 22:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 22:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 22:48	10061-02-6	
Diisopropyl ether	2.9	ug/L	0.50	1		03/12/21 22:48	108-20-3	
Ethylbenzene	2.9	ug/L	0.50	1		03/12/21 22:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 22:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 22:48	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 22:48	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 22:48	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 22:48	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 22:48	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 22:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 22:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 22:48	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 22:48	127-18-4	
Toluene	12.5	ug/L	0.50	1		03/12/21 22:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 22:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 22:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 22:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 22:48	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 22:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 22:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 22:48	96-18-4	
1,2,4-Trimethylbenzene	12.3	ug/L	0.50	1		03/12/21 22:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 22:48	108-67-8	M1
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 22:48	75-01-4	
m&p-Xylene	22.0	ug/L	1.0	1		03/12/21 22:48	179601-23-1	
o-Xylene	20.3	ug/L	0.50	1		03/12/21 22:48	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/12/21 22:48	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/12/21 22:48	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		03/12/21 22:48	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: MW-82	Lab ID: 92527326003	Collected: 03/11/21 09:05	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/12/21 21:39		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/12/21 21:39		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/12/21 21:39		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/12/21 21:39		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	99	%	70-130	1		03/12/21 21:39	460-00-4	
4-Bromofluorobenzene (PID) (S)	100	%	70-130	1		03/12/21 21:39	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 09:41	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 23:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 23:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 23:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 23:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 23:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 23:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 23:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 23:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 23:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 23:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 23:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 23:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 23:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 23:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 23:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 23:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:05	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: MW-82	Lab ID: 92527326003	Collected: 03/11/21 09:05	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 23:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 23:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 23:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 23:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 23:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 23:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 23:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 23:05	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 23:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:05	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 23:05	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 23:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 23:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 23:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 23:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 23:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 23:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 23:05	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/12/21 23:05	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/12/21 23:05	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/12/21 23:05	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: MW-83	Lab ID: 92527326004	Collected: 03/11/21 13:15	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/12/21 22:08		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/12/21 22:08		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/12/21 22:08		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/12/21 22:08		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	101	%	70-130	1		03/12/21 22:08	460-00-4	
4-Bromofluorobenzene (PID) (S)	101	%	70-130	1		03/12/21 22:08	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>67.3</b>	ug/L	5.0	1	03/16/21 01:45	03/16/21 09:45	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 23:23	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 23:23	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 23:23	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 23:23	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 23:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 23:23	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:23	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:23	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:23	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 23:23	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 23:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 23:23	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 23:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 23:23	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:23	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 23:23	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 23:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 23:23	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 23:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 23:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:23	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: MW-83	Lab ID: 92527326004	Collected: 03/11/21 13:15	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:23	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 23:23	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 23:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 23:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 23:23	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 23:23	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 23:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 23:23	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 23:23	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 23:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:23	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 23:23	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 23:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:23	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 23:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 23:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 23:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 23:23	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 23:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 23:23	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/12/21 23:23	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/12/21 23:23	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 23:23	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

Sample: MW-84	Lab ID: 92527326005	Collected: 03/11/21 12:10	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/12/21 22:36		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/12/21 22:36		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/12/21 22:36		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/12/21 22:36		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	104	%	70-130	1		03/12/21 22:36	460-00-4	
4-Bromofluorobenzene (PID) (S)	105	%	70-130	1		03/12/21 22:36	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 09:48	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/12/21 23:41	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 23:41	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 23:41	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 23:41	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 23:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 23:41	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:41	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:41	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 23:41	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 23:41	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 23:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 23:41	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 23:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 23:41	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:41	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 23:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 23:41	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 23:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 23:41	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 23:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 23:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 23:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 23:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 23:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 23:41	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: MW-84	Lab ID: 92527326005	Collected: 03/11/21 12:10	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 23:41	10061-02-6	
Diisopropyl ether	1.4	ug/L	0.50	1		03/12/21 23:41	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 23:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 23:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 23:41	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 23:41	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 23:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 23:41	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 23:41	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 23:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 23:41	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 23:41	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 23:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 23:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 23:41	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 23:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 23:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 23:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 23:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 23:41	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 23:41	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 23:41	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/12/21 23:41	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/12/21 23:41	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/12/21 23:41	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: <b>FB-1-20210311</b>	Lab ID: <b>92527326006</b>	Collected: 03/11/21 16:30	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>		Analytical Method: MADEP VPH Pace Analytical Services - Charlotte						
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/12/21 19:46		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/12/21 19:46		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/12/21 19:46		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/12/21 19:46		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	104	%	70-130	1		03/12/21 19:46	460-00-4	
4-Bromofluorobenzene (PID) (S)	105	%	70-130	1		03/12/21 19:46	460-00-4	
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/12/21 22:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 22:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 22:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 22:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 22:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 22:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 22:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 22:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 22:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 22:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 22:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 22:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 22:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 22:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 22:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 22:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 22:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 22:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 22:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 22:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 22:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 22:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 22:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 22:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 22:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 22:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 22:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 22:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 22:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 22:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 22:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 22:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 22:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 22:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 22:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 22:27	108-20-3	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

Sample: <b>FB-1-20210311</b>	Lab ID: <b>92527326006</b>	Collected: 03/11/21 16:30	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 22:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 22:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 22:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 22:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 22:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 22:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 22:27	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 22:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 22:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 22:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 22:27	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 22:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 22:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 22:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 22:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 22:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 22:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 22:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 22:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 22:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 22:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 22:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 22:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 22:27	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		03/12/21 22:27	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/12/21 22:27	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 22:27	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: Trip Blank	Lab ID: 92527326007	Collected: 03/11/21 00:00	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/12/21 22:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/12/21 22:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/12/21 22:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/12/21 22:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/12/21 22:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/12/21 22:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/12/21 22:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/12/21 22:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/12/21 22:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/12/21 22:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/12/21 22:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/12/21 22:45	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/12/21 22:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/12/21 22:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 22:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/12/21 22:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/12/21 22:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/12/21 22:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/12/21 22:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/12/21 22:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 22:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 22:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/12/21 22:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/12/21 22:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/12/21 22:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/12/21 22:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/12/21 22:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 22:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/12/21 22:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 22:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/12/21 22:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/12/21 22:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/12/21 22:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 22:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/12/21 22:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/12/21 22:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/12/21 22:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/12/21 22:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/12/21 22:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/12/21 22:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/12/21 22:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/12/21 22:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/12/21 22:45	103-65-1	
Styrene	ND	ug/L	0.50	1		03/12/21 22:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 22:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/12/21 22:45	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: Trip Blank		Lab ID: 92527326007	Collected: 03/11/21 00:00	Received: 03/11/21 17:42	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/12/21 22:45	127-18-4	
Toluene	ND	ug/L	0.50	1		03/12/21 22:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 22:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/12/21 22:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/12/21 22:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/12/21 22:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/12/21 22:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/12/21 22:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/12/21 22:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 22:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/12/21 22:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/12/21 22:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/12/21 22:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/12/21 22:45	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/12/21 22:45	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/12/21 22:45	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 22:45	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: EB-1-20210311	Lab ID: 92527326008	Collected: 03/11/21 16:45	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/12/21 20:14		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/12/21 20:14		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/12/21 20:14		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/12/21 20:14		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	104	%	70-130	1		03/12/21 20:14	460-00-4	
4-Bromofluorobenzene (PID) (S)	105	%	70-130	1		03/12/21 20:14	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 01:53	03/17/21 21:34	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 00:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 00:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 00:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 00:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 00:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 00:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 00:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 00:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 00:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 00:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 00:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 00:33	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 00:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 00:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 00:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 00:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 00:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 00:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 00:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 00:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 00:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 00:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 00:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 00:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 00:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 00:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 00:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 00:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 00:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 00:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 00:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 00:33	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Sample: EB-1-20210311	Lab ID: 92527326008	Collected: 03/11/21 16:45	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 00:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 00:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 00:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 00:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 00:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 00:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 00:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 00:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 00:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 00:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 00:33	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 00:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 00:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 00:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 00:33	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 00:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 00:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 00:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 00:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 00:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 00:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 00:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 00:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 00:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 00:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 00:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 00:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 00:33	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/13/21 00:33	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/13/21 00:33	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/13/21 00:33	2037-26-5	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

QC Batch: 606373      Analysis Method: MADEP VPH  
QC Batch Method: MADEP VPH      Analysis Description: VPH NC Water  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92527326001, 92527326002, 92527326003, 92527326004, 92527326005, 92527326006, 92527326008

METHOD BLANK: 3194584      Matrix: Water  
Associated Lab Samples: 92527326001, 92527326002, 92527326003, 92527326004, 92527326005, 92527326006, 92527326008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/12/21 19:17	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/12/21 19:17	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/12/21 19:17	N2
4-Bromofluorobenzene (FID) (S)	%	99	70-130	03/12/21 19:17	
4-Bromofluorobenzene (PID) (S)	%	99	70-130	03/12/21 19:17	

Parameter	Units	3194585		3194586		% Rec	% Rec	% Rec	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec						
Aliphatic (C05-C08)	ug/L	300	314	321	105	107	70-130	2	25	N2	
Aliphatic (C09-C12)	ug/L	300	294	335	98	112	70-130	13	25	N2	
Aromatic (C09-C10)	ug/L	100	91.9	102	92	102	70-130	10	25	N2	
4-Bromofluorobenzene (FID) (S)	%				86	99	70-130				
4-Bromofluorobenzene (PID) (S)	%				86	99	70-130				

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

QC Batch: 606771 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92527326001, 92527326002, 92527326003, 92527326004, 92527326005

METHOD BLANK: 3196835 Matrix: Water  
Associated Lab Samples: 92527326001, 92527326002, 92527326003, 92527326004, 92527326005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/16/21 10:50	

LABORATORY CONTROL SAMPLE: 3196836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196837 3196838

Parameter	Units	92525642003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result					
Lead	ug/L	ND	500	500	480	495	96	99	75-125	3	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

QC Batch: 607049	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92527326008

METHOD BLANK: 3198343 Matrix: Water

Associated Lab Samples: 92527326008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/17/21 20:55	

LABORATORY CONTROL SAMPLE: 3198344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198345 3198346

Parameter	Units	92527327015		3198346		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	477	493	95	98	75-125	3

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

QC Batch:	606352	Analysis Method:	SM 6200B
QC Batch Method:	SM 6200B	Analysis Description:	6200B MSV
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92527326001, 92527326006, 92527326007, 92527326008

METHOD BLANK: 3194451 Matrix: Water

Associated Lab Samples: 92527326001, 92527326006, 92527326007, 92527326008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,1-Dichloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,1-Dichloroethene	ug/L	ND	0.50	03/12/21 22:09	
1,1-Dichloropropene	ug/L	ND	0.50	03/12/21 22:09	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/12/21 22:09	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/12/21 22:09	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/12/21 22:09	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/12/21 22:09	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/12/21 22:09	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/12/21 22:09	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:09	
1,2-Dichloroethane	ug/L	ND	0.50	03/12/21 22:09	
1,2-Dichloropropane	ug/L	ND	0.50	03/12/21 22:09	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/12/21 22:09	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:09	
1,3-Dichloropropane	ug/L	ND	0.50	03/12/21 22:09	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:09	
2,2-Dichloropropane	ug/L	ND	0.50	03/12/21 22:09	
2-Chlorotoluene	ug/L	ND	0.50	03/12/21 22:09	
4-Chlorotoluene	ug/L	ND	0.50	03/12/21 22:09	
Benzene	ug/L	ND	0.50	03/12/21 22:09	
Bromobenzene	ug/L	ND	0.50	03/12/21 22:09	
Bromochloromethane	ug/L	ND	0.50	03/12/21 22:09	
Bromodichloromethane	ug/L	ND	0.50	03/12/21 22:09	
Bromoform	ug/L	ND	0.50	03/12/21 22:09	
Bromomethane	ug/L	ND	5.0	03/12/21 22:09	
Carbon tetrachloride	ug/L	ND	0.50	03/12/21 22:09	
Chlorobenzene	ug/L	ND	0.50	03/12/21 22:09	
Chloroethane	ug/L	ND	1.0	03/12/21 22:09	
Chloroform	ug/L	ND	0.50	03/12/21 22:09	
Chloromethane	ug/L	ND	1.0	03/12/21 22:09	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 22:09	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 22:09	
Dibromochloromethane	ug/L	ND	0.50	03/12/21 22:09	
Dibromomethane	ug/L	ND	0.50	03/12/21 22:09	
Dichlorodifluoromethane	ug/L	ND	0.50	03/12/21 22:09	
Diisopropyl ether	ug/L	ND	0.50	03/12/21 22:09	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

METHOD BLANK: 3194451

Matrix: Water

Associated Lab Samples: 92527326001, 92527326006, 92527326007, 92527326008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/12/21 22:09	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/12/21 22:09	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/12/21 22:09	
m&p-Xylene	ug/L	ND	1.0	03/12/21 22:09	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/12/21 22:09	
Methylene Chloride	ug/L	ND	2.0	03/12/21 22:09	
n-Butylbenzene	ug/L	ND	0.50	03/12/21 22:09	
n-Propylbenzene	ug/L	ND	0.50	03/12/21 22:09	
Naphthalene	ug/L	ND	2.0	03/12/21 22:09	
o-Xylene	ug/L	ND	0.50	03/12/21 22:09	
sec-Butylbenzene	ug/L	ND	0.50	03/12/21 22:09	
Styrene	ug/L	ND	0.50	03/12/21 22:09	
tert-Butylbenzene	ug/L	ND	0.50	03/12/21 22:09	
Tetrachloroethene	ug/L	ND	0.50	03/12/21 22:09	
Toluene	ug/L	ND	0.50	03/12/21 22:09	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 22:09	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 22:09	
Trichloroethene	ug/L	ND	0.50	03/12/21 22:09	
Trichlorofluoromethane	ug/L	ND	1.0	03/12/21 22:09	
Vinyl chloride	ug/L	ND	1.0	03/12/21 22:09	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/12/21 22:09	
4-Bromofluorobenzene (S)	%	100	70-130	03/12/21 22:09	
Toluene-d8 (S)	%	99	70-130	03/12/21 22:09	

LABORATORY CONTROL SAMPLE: 3194452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.8	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.4	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.1	104	60-140	
1,1,2-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1-Dichloroethane	ug/L	50	52.3	105	60-140	
1,1-Dichloroethene	ug/L	50	53.9	108	60-140	
1,1-Dichloropropene	ug/L	50	51.8	104	60-140	
1,2,3-Trichlorobenzene	ug/L	50	45.3	91	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.2	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.0	106	60-140	
1,2-Dichlorobenzene	ug/L	50	49.4	99	60-140	
1,2-Dichloroethane	ug/L	50	51.7	103	60-140	
1,2-Dichloropropane	ug/L	50	54.0	108	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.4	95	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

LABORATORY CONTROL SAMPLE: 3194452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.9	100	60-140	
1,3-Dichloropropane	ug/L	50	53.3	107	60-140	
1,4-Dichlorobenzene	ug/L	50	48.0	96	60-140	
2,2-Dichloropropane	ug/L	50	53.8	108	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	48.6	97	60-140	
Benzene	ug/L	50	50.9	102	60-140	
Bromobenzene	ug/L	50	49.8	100	60-140	
Bromochloromethane	ug/L	50	52.1	104	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	46.4	93	60-140	
Bromomethane	ug/L	50	59.2	118	60-140	
Carbon tetrachloride	ug/L	50	51.4	103	60-140	
Chlorobenzene	ug/L	50	52.5	105	60-140	
Chloroethane	ug/L	50	45.4	91	60-140	
Chloroform	ug/L	50	50.3	101	60-140	
Chloromethane	ug/L	50	42.3	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	60-140	
Dibromochloromethane	ug/L	50	54.3	109	60-140	
Dibromomethane	ug/L	50	51.6	103	60-140	
Dichlorodifluoromethane	ug/L	50	45.1	90	60-140	
Diisopropyl ether	ug/L	50	50.9	102	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.2	100	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.6	101	60-140	
m&p-Xylene	ug/L	100	103	103	60-140	
Methyl-tert-butyl ether	ug/L	50	51.3	103	60-140	
Methylene Chloride	ug/L	50	50.6	101	60-140	
n-Butylbenzene	ug/L	50	49.2	98	60-140	
n-Propylbenzene	ug/L	50	48.5	97	60-140	
Naphthalene	ug/L	50	49.8	100	60-140	
o-Xylene	ug/L	50	51.0	102	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	41.7	83	60-140	
Tetrachloroethene	ug/L	50	49.2	98	60-140	
Toluene	ug/L	50	50.4	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.2	104	60-140	
trans-1,3-Dichloropropene	ug/L	50	54.7	109	60-140	
Trichloroethene	ug/L	50	52.3	105	60-140	
Trichlorofluoromethane	ug/L	50	46.8	94	60-140	
Vinyl chloride	ug/L	50	45.4	91	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			96	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

Parameter	92525533003		MS	MSD	3195474		3195475		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.7	21.9	109	110	60-140	1		
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	22.5	109	113	60-140	3		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.6	20.3	103	102	60-140	1		
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	20.3	98	102	60-140	3		
1,1-Dichloroethane	ug/L	ND	20	20	22.3	21.8	112	109	60-140	2		
1,1-Dichloroethene	ug/L	ND	20	20	23.0	24.0	115	120	60-140	4		
1,1-Dichloropropene	ug/L	ND	20	20	22.2	22.3	111	111	60-140	0		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	19.0	100	95	60-140	5		
1,2,3-Trichloropropane	ug/L	ND	20	20	19.6	19.2	98	96	60-140	2		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.2	18.7	101	93	60-140	8		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.5	19.9	98	100	60-140	2		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.8	20.9	109	104	60-140	4		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.6	21.5	103	107	60-140	4		
1,2-Dichlorobenzene	ug/L	ND	20	20	19.3	18.9	96	94	60-140	2		
1,2-Dichloroethane	ug/L	ND	20	20	20.7	20.3	103	101	60-140	2		
1,2-Dichloropropane	ug/L	ND	20	20	22.2	23.4	111	117	60-140	5		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.8	19.7	99	98	60-140	0		
1,3-Dichlorobenzene	ug/L	ND	20	20	19.9	19.9	100	99	60-140	0		
1,3-Dichloropropane	ug/L	ND	20	20	20.8	21.1	104	105	60-140	1		
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	18.7	95	94	60-140	2		
2,2-Dichloropropane	ug/L	ND	20	20	22.8	23.5	114	117	60-140	3		
2-Chlorotoluene	ug/L	ND	20	20	20.3	20.2	102	101	60-140	1		
4-Chlorotoluene	ug/L	ND	20	20	19.6	19.3	98	96	60-140	2		
Benzene	ug/L	1.2	20	20	22.6	23.1	107	110	60-140	2		
Bromobenzene	ug/L	ND	20	20	20.0	20.3	100	102	60-140	2		
Bromochloromethane	ug/L	ND	20	20	21.3	21.1	106	105	60-140	1		
Bromodichloromethane	ug/L	ND	20	20	19.9	20.9	99	104	60-140	5		
Bromoform	ug/L	ND	20	20	18.3	18.9	92	94	60-140	3		
Bromomethane	ug/L	ND	20	20	25.6	26.7	128	134	60-140	4		
Carbon tetrachloride	ug/L	ND	20	20	22.2	23.0	111	115	60-140	3		
Chlorobenzene	ug/L	ND	20	20	21.3	21.8	107	109	60-140	2		
Chloroethane	ug/L	ND	20	20	18.3	20.1	92	101	60-140	9		
Chloroform	ug/L	ND	20	20	21.3	21.0	107	105	60-140	2		
Chloromethane	ug/L	ND	20	20	16.1	15.8	80	79	60-140	2		
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.8	20.4	104	102	60-140	2		
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.3	21.8	111	109	60-140	2		
Dibromochloromethane	ug/L	ND	20	20	21.0	22.4	105	112	60-140	6		
Dibromomethane	ug/L	ND	20	20	21.2	20.5	106	102	60-140	3		
Dichlorodifluoromethane	ug/L	ND	20	20	11.6	11.6	58	58	60-140	0	M1	
Diisopropyl ether	ug/L	4.1	20	20	24.3	24.7	101	103	60-140	2		
Ethylbenzene	ug/L	ND	20	20	20.9	21.3	104	107	60-140	2		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	25.1	21.8	126	109	60-140	14		
Isopropylbenzene (Cumene)	ug/L	0.62	20	20	22.0	22.0	107	107	60-140	0		
m&p-Xylene	ug/L	ND	40	40	42.5	42.7	106	107	60-140	0		
Methyl-tert-butyl ether	ug/L	0.81	20	20	21.4	21.5	103	103	60-140	1		
Methylene Chloride	ug/L	ND	20	20	20.2	20.9	101	104	60-140	3		

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

Parameter	92525533003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	21.6	19.9	108	99	60-140	8				
n-Propylbenzene	ug/L	ND	20	20	20.6	20.1	103	101	60-140	2				
Naphthalene	ug/L	ND	20	20	21.2	19.2	106	96	60-140	10				
o-Xylene	ug/L	ND	20	20	20.7	21.2	104	106	60-140	2				
sec-Butylbenzene	ug/L	ND	20	20	20.8	20.6	104	103	60-140	1				
Styrene	ug/L	ND	20	20	20.9	21.2	104	106	60-140	1				
tert-Butylbenzene	ug/L	ND	20	20	17.7	17.7	89	88	60-140	0				
Tetrachloroethene	ug/L	ND	20	20	21.3	22.3	106	111	60-140	4				
Toluene	ug/L	ND	20	20	21.4	21.2	107	106	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.7	21.6	108	108	60-140	0				
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.5	21.7	107	108	60-140	1				
Trichloroethene	ug/L	ND	20	20	21.9	21.9	109	109	60-140	0				
Trichlorofluoromethane	ug/L	ND	20	20	22.0	21.8	110	109	60-140	1				
Vinyl chloride	ug/L	ND	20	20	17.1	18.0	86	90	60-140	5				
1,2-Dichloroethane-d4 (S)	%						101	99	70-130					
4-Bromofluorobenzene (S)	%						96	99	70-130					
Toluene-d8 (S)	%						99	99	70-130					

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

QC Batch: 606355 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92527326002, 92527326003, 92527326004, 92527326005

METHOD BLANK: 3194466 Matrix: Water  
Associated Lab Samples: 92527326002, 92527326003, 92527326004, 92527326005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,1-Dichloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,1-Dichloroethene	ug/L	ND	0.50	03/12/21 22:30	
1,1-Dichloropropene	ug/L	ND	0.50	03/12/21 22:30	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/12/21 22:30	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/12/21 22:30	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/12/21 22:30	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/12/21 22:30	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/12/21 22:30	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/12/21 22:30	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:30	
1,2-Dichloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,2-Dichloropropane	ug/L	ND	0.50	03/12/21 22:30	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/12/21 22:30	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:30	
1,3-Dichloropropane	ug/L	ND	0.50	03/12/21 22:30	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:30	
2,2-Dichloropropane	ug/L	ND	0.50	03/12/21 22:30	
2-Chlorotoluene	ug/L	ND	0.50	03/12/21 22:30	
4-Chlorotoluene	ug/L	ND	0.50	03/12/21 22:30	
Benzene	ug/L	ND	0.50	03/12/21 22:30	
Bromobenzene	ug/L	ND	0.50	03/12/21 22:30	
Bromochloromethane	ug/L	ND	0.50	03/12/21 22:30	
Bromodichloromethane	ug/L	ND	0.50	03/12/21 22:30	
Bromoform	ug/L	ND	0.50	03/12/21 22:30	
Bromomethane	ug/L	ND	5.0	03/12/21 22:30	
Carbon tetrachloride	ug/L	ND	0.50	03/12/21 22:30	
Chlorobenzene	ug/L	ND	0.50	03/12/21 22:30	
Chloroethane	ug/L	ND	1.0	03/12/21 22:30	
Chloroform	ug/L	ND	0.50	03/12/21 22:30	
Chloromethane	ug/L	ND	1.0	03/12/21 22:30	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 22:30	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 22:30	
Dibromochloromethane	ug/L	ND	0.50	03/12/21 22:30	
Dibromomethane	ug/L	ND	0.50	03/12/21 22:30	
Dichlorodifluoromethane	ug/L	ND	0.50	03/12/21 22:30	
Diisopropyl ether	ug/L	ND	0.50	03/12/21 22:30	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

METHOD BLANK: 3194466

Matrix: Water

Associated Lab Samples: 92527326002, 92527326003, 92527326004, 92527326005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/12/21 22:30	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/12/21 22:30	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/12/21 22:30	
m&p-Xylene	ug/L	ND	1.0	03/12/21 22:30	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/12/21 22:30	
Methylene Chloride	ug/L	ND	2.0	03/12/21 22:30	
n-Butylbenzene	ug/L	ND	0.50	03/12/21 22:30	
n-Propylbenzene	ug/L	ND	0.50	03/12/21 22:30	
Naphthalene	ug/L	ND	2.0	03/12/21 22:30	
o-Xylene	ug/L	ND	0.50	03/12/21 22:30	
sec-Butylbenzene	ug/L	ND	0.50	03/12/21 22:30	
Styrene	ug/L	ND	0.50	03/12/21 22:30	
tert-Butylbenzene	ug/L	ND	0.50	03/12/21 22:30	
Tetrachloroethene	ug/L	ND	0.50	03/12/21 22:30	
Toluene	ug/L	ND	0.50	03/12/21 22:30	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 22:30	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 22:30	
Trichloroethene	ug/L	ND	0.50	03/12/21 22:30	
Trichlorofluoromethane	ug/L	ND	1.0	03/12/21 22:30	
Vinyl chloride	ug/L	ND	1.0	03/12/21 22:30	
1,2-Dichloroethane-d4 (S)	%	99	70-130	03/12/21 22:30	
4-Bromofluorobenzene (S)	%	101	70-130	03/12/21 22:30	
Toluene-d8 (S)	%	99	70-130	03/12/21 22:30	

LABORATORY CONTROL SAMPLE: 3194467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	61.6	123	60-140	
1,1,1-Trichloroethane	ug/L	50	54.3	109	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	62.4	125	60-140	
1,1,2-Trichloroethane	ug/L	50	58.9	118	60-140	
1,1-Dichloroethane	ug/L	50	52.8	106	60-140	
1,1-Dichloroethene	ug/L	50	55.2	110	60-140	
1,1-Dichloropropene	ug/L	50	56.0	112	60-140	
1,2,3-Trichlorobenzene	ug/L	50	60.9	122	60-140	
1,2,3-Trichloropropane	ug/L	50	61.9	124	60-140	
1,2,4-Trichlorobenzene	ug/L	50	61.2	122	60-140	
1,2,4-Trimethylbenzene	ug/L	50	59.0	118	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	63.9	128	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	63.4	127	60-140	
1,2-Dichlorobenzene	ug/L	50	57.5	115	60-140	
1,2-Dichloroethane	ug/L	50	54.1	108	60-140	
1,2-Dichloropropane	ug/L	50	55.1	110	60-140	
1,3,5-Trimethylbenzene	ug/L	50	58.0	116	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

LABORATORY CONTROL SAMPLE: 3194467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	57.5	115	60-140	
1,3-Dichloropropane	ug/L	50	60.5	121	60-140	
1,4-Dichlorobenzene	ug/L	50	56.0	112	60-140	
2,2-Dichloropropane	ug/L	50	56.4	113	60-140	
2-Chlorotoluene	ug/L	50	56.7	113	60-140	
4-Chlorotoluene	ug/L	50	55.1	110	60-140	
Benzene	ug/L	50	55.7	111	60-140	
Bromobenzene	ug/L	50	55.6	111	60-140	
Bromochloromethane	ug/L	50	55.7	111	60-140	
Bromodichloromethane	ug/L	50	56.3	113	60-140	
Bromoform	ug/L	50	51.4	103	60-140	
Bromomethane	ug/L	50	53.4	107	60-140	
Carbon tetrachloride	ug/L	50	56.7	113	60-140	
Chlorobenzene	ug/L	50	57.0	114	60-140	
Chloroethane	ug/L	50	46.3	93	60-140	
Chloroform	ug/L	50	52.7	105	60-140	
Chloromethane	ug/L	50	43.8	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	60-140	
cis-1,3-Dichloropropene	ug/L	50	61.3	123	60-140	
Dibromochloromethane	ug/L	50	63.0	126	60-140	
Dibromomethane	ug/L	50	59.1	118	60-140	
Dichlorodifluoromethane	ug/L	50	50.7	101	60-140	
Diisopropyl ether	ug/L	50	50.6	101	60-140	
Ethylbenzene	ug/L	50	57.5	115	60-140	
Hexachloro-1,3-butadiene	ug/L	50	61.7	123	60-140	
Isopropylbenzene (Cumene)	ug/L	50	58.7	117	60-140	
m&p-Xylene	ug/L	100	114	114	60-140	
Methyl-tert-butyl ether	ug/L	50	56.3	113	60-140	
Methylene Chloride	ug/L	50	47.7	95	60-140	
n-Butylbenzene	ug/L	50	62.0	124	60-140	
n-Propylbenzene	ug/L	50	55.3	111	60-140	
Naphthalene	ug/L	50	60.0	120	60-140	
o-Xylene	ug/L	50	57.9	116	60-140	
sec-Butylbenzene	ug/L	50	57.5	115	60-140	
Styrene	ug/L	50	57.3	115	60-140	
tert-Butylbenzene	ug/L	50	47.0	94	60-140	
Tetrachloroethene	ug/L	50	58.4	117	60-140	
Toluene	ug/L	50	54.6	109	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.2	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.4	119	60-140	
Trichloroethene	ug/L	50	55.5	111	60-140	
Trichlorofluoromethane	ug/L	50	48.8	98	60-140	
Vinyl chloride	ug/L	50	47.5	95	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Parameter	92527326002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	23.7	23.9	118	119	60-140	1				
1,1,1-Trichloroethane	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	23.1	24.2	116	121	60-140	4				
1,1,2-Trichloroethane	ug/L	ND	20	20	22.8	23.4	114	117	60-140	2				
1,1-Dichloroethane	ug/L	ND	20	20	21.8	22.1	109	110	60-140	1				
1,1-Dichloroethene	ug/L	ND	20	20	22.9	23.1	115	115	60-140	1				
1,1-Dichloropropene	ug/L	ND	20	20	23.4	23.9	117	119	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	24.0	24.6	120	123	60-140	2				
1,2,3-Trichloropropane	ug/L	ND	20	20	22.7	23.3	114	116	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	24.5	25.5	122	127	60-140	4				
1,2,4-Trimethylbenzene	ug/L	12.3	20	20	35.8	37.7	117	127	60-140	5				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.0	24.3	110	122	60-140	10				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	23.3	24.5	117	123	60-140	5				
1,2-Dichlorobenzene	ug/L	ND	20	20	22.2	23.0	111	115	60-140	4				
1,2-Dichloroethane	ug/L	ND	20	20	21.4	22.0	107	110	60-140	3				
1,2-Dichloropropane	ug/L	ND	20	20	22.1	22.6	111	113	60-140	2				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	29.9	31.6	150	158	60-140	5 M1				
1,3-Dichlorobenzene	ug/L	ND	20	20	22.3	23.4	112	117	60-140	5				
1,3-Dichloropropane	ug/L	ND	20	20	22.0	23.6	110	118	60-140	7				
1,4-Dichlorobenzene	ug/L	ND	20	20	22.2	23.2	111	116	60-140	4				
2,2-Dichloropropane	ug/L	ND	20	20	23.7	23.8	118	119	60-140	0				
2-Chlorotoluene	ug/L	ND	20	20	20.6	21.3	103	107	60-140	4				
4-Chlorotoluene	ug/L	ND	20	20	22.3	22.8	112	114	60-140	2				
Benzene	ug/L	3.5	20	20	25.8	26.4	111	115	60-140	2				
Bromobenzene	ug/L	ND	20	20	21.8	22.3	109	111	60-140	2				
Bromochloromethane	ug/L	ND	20	20	22.9	22.3	115	112	60-140	3				
Bromodichloromethane	ug/L	ND	20	20	22.0	23.0	110	115	60-140	5				
Bromoform	ug/L	ND	20	20	19.7	20.9	99	104	60-140	6				
Bromomethane	ug/L	ND	20	20	21.0	21.1	105	106	60-140	1				
Carbon tetrachloride	ug/L	ND	20	20	23.4	24.1	117	121	60-140	3				
Chlorobenzene	ug/L	ND	20	20	22.4	23.4	112	117	60-140	4				
Chloroethane	ug/L	ND	20	20	20.6	18.6	103	93	60-140	10				
Chloroform	ug/L	ND	20	20	21.9	21.5	110	108	60-140	2				
Chloromethane	ug/L	ND	20	20	16.8	16.8	84	84	60-140	0				
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	20.7	101	104	60-140	2				
cis-1,3-Dichloropropene	ug/L	ND	20	20	23.3	24.0	116	120	60-140	3				
Dibromochloromethane	ug/L	ND	20	20	23.3	24.5	117	122	60-140	5				
Dibromomethane	ug/L	ND	20	20	22.5	23.1	113	115	60-140	2				
Dichlorodifluoromethane	ug/L	ND	20	20	12.0	11.9	60	60	60-140	0				
Diisopropyl ether	ug/L	2.9	20	20	22.9	23.1	100	101	60-140	1				
Ethylbenzene	ug/L	2.9	20	20	25.8	27.0	114	120	60-140	5				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	27.2	137	136	60-140	1				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	23.8	24.7	119	123	60-140	4				
m&p-Xylene	ug/L	22.0	40	40	66.6	69.5	111	119	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	20	20	21.1	21.2	106	106	60-140	0				
Methylene Chloride	ug/L	ND	20	20	18.7	18.9	94	94	60-140	1				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

Parameter	92527326002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	28.1	28.8	141	144	60-140	3	M1			
n-Propylbenzene	ug/L	ND	20	20	23.6	24.3	118	122	60-140	3				
Naphthalene	ug/L	ND	20	20	23.9	24.9	113	118	60-140	4				
o-Xylene	ug/L	20.3	20	20	42.4	43.8	111	117	60-140	3				
sec-Butylbenzene	ug/L	ND	20	20	23.7	24.5	119	123	60-140	3				
Styrene	ug/L	ND	20	20	22.6	23.0	113	115	60-140	2				
tert-Butylbenzene	ug/L	ND	20	20	19.1	19.4	96	97	60-140	1				
Tetrachloroethene	ug/L	ND	20	20	23.0	24.2	115	121	60-140	5				
Toluene	ug/L	12.5	20	20	34.6	36.1	110	118	60-140	4				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.1	21.9	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.4	22.9	112	114	60-140	2				
Trichloroethene	ug/L	ND	20	20	22.9	23.7	115	119	60-140	4				
Trichlorofluoromethane	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
Vinyl chloride	ug/L	ND	20	20	17.0	16.9	85	84	60-140	1				
1,2-Dichloroethane-d4 (S)	%						101	99	70-130					
4-Bromofluorobenzene (S)	%						98	101	70-130					
Toluene-d8 (S)	%						97	98	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527326

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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.

### ANALYTE QUALIFIERS

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527326

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527326001	MW-79D	MADEP VPH	606373		
92527326002	MW-81	MADEP VPH	606373		
92527326003	MW-82	MADEP VPH	606373		
92527326004	MW-83	MADEP VPH	606373		
92527326005	MW-84	MADEP VPH	606373		
92527326006	FB-1-20210311	MADEP VPH	606373		
92527326008	EB-1-20210311	MADEP VPH	606373		
92527326001	MW-79D	EPA 3010A	606771	EPA 6010D	606788
92527326002	MW-81	EPA 3010A	606771	EPA 6010D	606788
92527326003	MW-82	EPA 3010A	606771	EPA 6010D	606788
92527326004	MW-83	EPA 3010A	606771	EPA 6010D	606788
92527326005	MW-84	EPA 3010A	606771	EPA 6010D	606788
92527326008	EB-1-20210311	EPA 3010A	607049	EPA 6010D	607079
92527326001	MW-79D	SM 6200B	606352		
92527326002	MW-81	SM 6200B	606355		
92527326003	MW-82	SM 6200B	606355		
92527326004	MW-83	SM 6200B	606355		
92527326005	MW-84	SM 6200B	606355		
92527326006	FB-1-20210311	SM 6200B	606352		
92527326007	Trip Blank	SM 6200B	606352		
92527326008	EB-1-20210311	SM 6200B	606352		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM**

Address: **6000 Fawcett Rd, Suite 200  
Charlotte, NC 28216**

Report To: **Andy Wrecking**

Copy To:

Customer Project Name/Number: **Colonial Pipeline**

Phone: **(904) 572-0330**

Email: **awrecking@aecom.com**

Collected By (print):

Collected By (signature):

Sample Disposal:  
 Dispose as appropriate  
 Return  
 Archive  
 Hold

Rush:  
 Same Day  
 2 Day  
 3 Day  
 4 Day  
 5 Day

Turnaround Date Required:

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Immediately Packed on Ice:  
 Yes  
 No

Field Filtered (if applicable):  
 Yes  
 No

Analysis:

Compliance Monitoring?  
 Yes  
 No

Time Zone Collected:  
 PT  
 MT  
 CT  
 ET

State: / Country/City:

Site/Facility ID #:

Site Collection Info/Address:

Matrix \*  
WT

Comp / Grab  
G

Collected for Composite Start Date

Composite End Date

Res Cl

# of Ctns

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact

Custody Signatures Present

Collector Signatures Present

Bottles Intact

Correct Bottles

Sufficient Volume

Samples Received on Ice

VOA - Headspace Acceptable

USDA Regulated Soils

Samples in Holding Time

Customer Sample ID	Matrix *	Comp / Grab	Collected for Composite Start Date	Composite End Date	Res Cl	# of Ctns
MW-81D	WT	G	3/11/21	1355		8
MW-81				1010		
MW-82				0905		
MW-83				1315		
MW-84				1210		
FB-1-20210311				1630		7
FB-1-20210311				1645		8
TRIP BLANK						

Type of Ice Used:	Blue	Dry	None
Wet			

Packing Material Used: **Bubble Bags**

Radchem sample(s) screened (<500 cpm): Y N NA

Lab Tracking #: **2618817**

SHORT HOLDS PRESENT (<72 hours): Y N/A

Samples received via: **FEDEx UPS**

Date/Time: **3/11/21 17:42**

Courier: **MTL LAB USE ONLY**

Lab Sample Temperature Info:	Temp Blank Received:	Y	N	NA
Therm ID#: <b>921064</b>				
Cooler 1 Therm Upon Receipt: <b>39.8°C</b>				
Cooler 1 Therm Corr. Factor: <b>0.0°C</b>				
Cooler 1 Corrected Temp: <b>37.2°C</b>				

Lab Profile/Line: **92527326**

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact:  Y  N  NA
- Custody Signatures Present:  Y  N  NA
- Collector Signatures Present:  Y  N  NA
- Bottles Intact:  Y  N  NA
- Correct Bottles:  Y  N  NA
- Sufficient Volume:  Y  N  NA
- Samples Received on Ice:  Y  N  NA
- VOA - Headspace Acceptable:  Y  N  NA
- USDA Regulated Soils:  Y  N  NA
- Samples in Holding Time:  Y  N  NA
- Residual Chlorine Present:  Y  N  NA
- Cl Strips:  Y  N  NA
- Sample pH Acceptable:  Y  N  NA
- pH Strips:  Y  N  NA
- Sulfide Present:  Y  N  NA
- Lead Acetate Strips:  Y  N  NA

LAB USE ONLY:  
Lab Sample # / Comments: **92527326**

# MO#: 92527326



LAB USE

Container: **3 3 1**

Analyses

Lab Project Manager:

Number or

Page 35 of 35

March 18, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

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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  
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 ANALYTE COUNT

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527327001	MW-01	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327002	MW-02	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327003	MW-06	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327004	MW-09	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327005	MW-12	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327006	MW-29	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327007	MW-30	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327008	MW-41	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327009	MW-52	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327010	MW-54	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327011	MW-58	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327012	MW-59	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527327013	MW-69	MADEP VPH	LMB	6	PASI-C

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527327014	MW-71	EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
		MADEP VPH	LMB	6	PASI-C
92527327015	DUP-1-20210311	EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
		MADEP VPH	LMB	6	PASI-C
92527327016	Trip Blank	EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
		SM 6200B	SAS	63	PASI-C

PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Sample: MW-01	Lab ID: 92527327001	Collected: 03/11/21 10:50	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/12/21 23:05		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/12/21 23:05		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/12/21 23:05		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/12/21 23:05		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	105	%	70-130	1		03/12/21 23:05	460-00-4	
4-Bromofluorobenzene (PID) (S)	106	%	70-130	1		03/12/21 23:05	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 09:51	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 00:34	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 00:34	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 00:34	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 00:34	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 00:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 00:34	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 00:34	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 00:34	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 00:34	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 00:34	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 00:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 00:34	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 00:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 00:34	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 00:34	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 00:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 00:34	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 00:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 00:34	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 00:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 00:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 00:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 00:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 00:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 00:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 00:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 00:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 00:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 00:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 00:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 00:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 00:34	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-01	Lab ID: 92527327001	Collected: 03/11/21 10:50	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 00:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 00:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 00:34	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 00:34	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 00:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 00:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 00:34	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 00:34	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 00:34	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 00:34	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 00:34	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 00:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 00:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 00:34	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 00:34	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 00:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 00:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 00:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 00:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 00:34	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 00:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 00:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 00:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 00:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 00:34	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 00:34	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 00:34	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 00:34	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/13/21 00:34	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/13/21 00:34	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/13/21 00:34	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-02	Lab ID: 92527327002	Collected: 03/11/21 15:40	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/12/21 23:33		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/12/21 23:33		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/12/21 23:33		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/12/21 23:33		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	105	%	70-130	1		03/12/21 23:33	460-00-4	
4-Bromofluorobenzene (PID) (S)	105	%	70-130	1		03/12/21 23:33	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:01	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 00:52	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 00:52	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 00:52	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 00:52	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 00:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 00:52	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 00:52	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 00:52	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 00:52	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 00:52	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 00:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 00:52	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 00:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 00:52	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 00:52	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 00:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 00:52	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 00:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 00:52	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 00:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 00:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 00:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 00:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 00:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 00:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 00:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 00:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 00:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 00:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 00:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 00:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 00:52	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-02	Lab ID: 92527327002	Collected: 03/11/21 15:40	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 00:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 00:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 00:52	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 00:52	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 00:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 00:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 00:52	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 00:52	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 00:52	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 00:52	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 00:52	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 00:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 00:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 00:52	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 00:52	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 00:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 00:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 00:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 00:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 00:52	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 00:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 00:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 00:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 00:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 00:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 00:52	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 00:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 00:52	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/13/21 00:52	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/13/21 00:52	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/13/21 00:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-06	Lab ID: 92527327003	Collected: 03/11/21 13:05	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/13/21 00:02		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/13/21 00:02		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/13/21 00:02		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 00:02		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	105	%	70-130	1		03/13/21 00:02	460-00-4	
4-Bromofluorobenzene (PID) (S)	106	%	70-130	1		03/13/21 00:02	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:04	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 01:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 01:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 01:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 01:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 01:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 01:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 01:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 01:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 01:10	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 01:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 01:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 01:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 01:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 01:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 01:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 01:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 01:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 01:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 01:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 01:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:10	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-06	Lab ID: 92527327003	Collected: 03/11/21 13:05	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:10	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 01:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 01:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 01:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 01:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 01:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 01:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 01:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 01:10	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 01:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 01:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 01:10	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 01:10	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 01:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 01:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 01:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 01:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 01:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 01:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 01:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 01:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 01:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 01:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 01:10	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 01:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 01:10	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/13/21 01:10	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/13/21 01:10	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/13/21 01:10	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-09	Lab ID: 92527327004	Collected: 03/11/21 12:20	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/13/21 00:30		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/13/21 00:30		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/13/21 00:30		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 00:30		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	101	%	70-130	1		03/13/21 00:30	460-00-4	
4-Bromofluorobenzene (PID) (S)	101	%	70-130	1		03/13/21 00:30	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:07	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 01:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 01:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 01:28	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 01:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 01:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 01:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 01:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 01:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 01:28	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 01:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 01:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 01:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 01:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 01:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 01:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 01:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 01:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 01:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 01:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 01:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:28	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-09	Lab ID: 92527327004	Collected: 03/11/21 12:20	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:28	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 01:28	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 01:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 01:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 01:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 01:28	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 01:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 01:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 01:28	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 01:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 01:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 01:28	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 01:28	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 01:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 01:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 01:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 01:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 01:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 01:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 01:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 01:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 01:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 01:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 01:28	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 01:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 01:28	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/13/21 01:28	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/13/21 01:28	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/13/21 01:28	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-12	Lab ID: 92527327005	Collected: 03/11/21 15:20	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/13/21 00:58		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/13/21 00:58		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/13/21 00:58		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 00:58		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	105	%	70-130	1		03/13/21 00:58	460-00-4	
4-Bromofluorobenzene (PID) (S)	105	%	70-130	1		03/13/21 00:58	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:11	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 01:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 01:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 01:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 01:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 01:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 01:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 01:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 01:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 01:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 01:45	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 01:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 01:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 01:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 01:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 01:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 01:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 01:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 01:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 01:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 01:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 01:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 01:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 01:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 01:45	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-12	Lab ID: 92527327005	Collected: 03/11/21 15:20	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 01:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 01:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 01:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 01:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 01:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 01:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 01:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 01:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 01:45	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 01:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 01:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 01:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 01:45	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 01:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 01:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 01:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 01:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 01:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 01:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 01:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 01:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 01:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 01:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 01:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 01:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 01:45	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/13/21 01:45	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/13/21 01:45	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/13/21 01:45	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Sample: MW-29	Lab ID: 92527327006	Collected: 03/11/21 10:10	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/13/21 01:27		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/13/21 01:27		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/13/21 01:27		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 01:27		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	104	%	70-130	1		03/13/21 01:27	460-00-4	
4-Bromofluorobenzene (PID) (S)	104	%	70-130	1		03/13/21 01:27	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:14	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	2.3	ug/L	0.50	1		03/13/21 02:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 02:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 02:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 02:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 02:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 02:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 02:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 02:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 02:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 02:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 02:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 02:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 02:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 02:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 02:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 02:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 02:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 02:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 02:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 02:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:03	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-29	Lab ID: 92527327006	Collected: 03/11/21 10:10	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:03	10061-02-6	
Diisopropyl ether	<b>1.2</b>	ug/L	0.50	1		03/13/21 02:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 02:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 02:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 02:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 02:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 02:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 02:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 02:03	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 02:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 02:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 02:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 02:03	127-18-4	
Toluene	<b>6.3</b>	ug/L	0.50	1		03/13/21 02:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 02:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 02:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 02:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 02:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 02:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 02:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 02:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 02:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 02:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 02:03	75-01-4	
m&p-Xylene	<b>1.8</b>	ug/L	1.0	1		03/13/21 02:03	179601-23-1	
o-Xylene	<b>0.94</b>	ug/L	0.50	1		03/13/21 02:03	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/13/21 02:03	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/13/21 02:03	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		03/13/21 02:03	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-30	Lab ID: 92527327007	Collected: 03/11/21 14:05	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/13/21 01:55		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/13/21 01:55		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/13/21 01:55		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 01:55		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	105	%	70-130	1		03/13/21 01:55	460-00-4	
4-Bromofluorobenzene (PID) (S)	105	%	70-130	1		03/13/21 01:55	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:17	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 02:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 02:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 02:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 02:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 02:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 02:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 02:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 02:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 02:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 02:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 02:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 02:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 02:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 02:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 02:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 02:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 02:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 02:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 02:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 02:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:21	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-30	Lab ID: 92527327007	Collected: 03/11/21 14:05	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 02:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 02:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 02:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 02:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 02:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 02:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 02:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 02:21	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 02:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 02:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 02:21	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 02:21	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 02:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 02:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 02:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 02:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 02:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 02:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 02:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 02:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 02:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 02:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 02:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 02:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 02:21	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/13/21 02:21	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/13/21 02:21	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/13/21 02:21	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Sample: MW-41	Lab ID: 92527327008	Collected: 03/11/21 15:10	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	343	ug/L	50.0	1		03/13/21 02:24		N2
Aliphatic (C09-C12)	66.3	ug/L	50.0	1		03/13/21 02:24		N2
Aliphatic(C09-C12) Adjusted	62.7	ug/L	50.0	1		03/13/21 02:24		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 02:24		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	102	%	70-130	1		03/13/21 02:24	460-00-4	
4-Bromofluorobenzene (PID) (S)	103	%	70-130	1		03/13/21 02:24	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:20	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	64.3	ug/L	0.50	1		03/13/21 02:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 02:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 02:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 02:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 02:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 02:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 02:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 02:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 02:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 02:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 02:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 02:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 02:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 02:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 02:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 02:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 02:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 02:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 02:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 02:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:39	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-41	Lab ID: 92527327008	Collected: 03/11/21 15:10	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:39	10061-02-6	
Diisopropyl ether	<b>12.6</b>	ug/L	0.50	1		03/13/21 02:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 02:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 02:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 02:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 02:39	75-09-2	
Methyl-tert-butyl ether	<b>3.1</b>	ug/L	0.50	1		03/13/21 02:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 02:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 02:39	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 02:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 02:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 02:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 02:39	127-18-4	
Toluene	<b>4.4</b>	ug/L	0.50	1		03/13/21 02:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 02:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 02:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 02:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 02:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 02:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 02:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 02:39	96-18-4	
1,2,4-Trimethylbenzene	<b>3.1</b>	ug/L	0.50	1		03/13/21 02:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 02:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 02:39	75-01-4	
m&p-Xylene	<b>16.1</b>	ug/L	1.0	1		03/13/21 02:39	179601-23-1	
o-Xylene	<b>16.7</b>	ug/L	0.50	1		03/13/21 02:39	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/13/21 02:39	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		03/13/21 02:39	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		03/13/21 02:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Sample: MW-52	Lab ID: 92527327009	Collected: 03/11/21 15:05	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	1240	ug/L	50.0	1		03/13/21 02:52		N2
Aliphatic (C09-C12)	222	ug/L	50.0	1		03/13/21 02:52		N2
Aliphatic(C09-C12) Adjusted	200	ug/L	50.0	1		03/13/21 02:52		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 02:52		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	101	%	70-130	1		03/13/21 02:52	460-00-4	
4-Bromofluorobenzene (PID) (S)	101	%	70-130	1		03/13/21 02:52	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:24	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	192	ug/L	0.50	1		03/13/21 02:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 02:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 02:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 02:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 02:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 02:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 02:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 02:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 02:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 02:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 02:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 02:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 02:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 02:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 02:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 02:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 02:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 02:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 02:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 02:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 02:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 02:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 02:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 02:57	594-20-7	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-52	Lab ID: 92527327009	Collected: 03/11/21 15:05	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 02:57	10061-02-6	
Diisopropyl ether	55.8	ug/L	0.50	1		03/13/21 02:57	108-20-3	
Ethylbenzene	1.9	ug/L	0.50	1		03/13/21 02:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 02:57	87-68-3	
Isopropylbenzene (Cumene)	0.55	ug/L	0.50	1		03/13/21 02:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 02:57	75-09-2	
Methyl-tert-butyl ether	13.7	ug/L	0.50	1		03/13/21 02:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 02:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 02:57	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 02:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 02:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 02:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 02:57	127-18-4	
Toluene	36.8	ug/L	0.50	1		03/13/21 02:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 02:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 02:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 02:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 02:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 02:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 02:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 02:57	96-18-4	
1,2,4-Trimethylbenzene	11.1	ug/L	0.50	1		03/13/21 02:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 02:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 02:57	75-01-4	
m&p-Xylene	64.8	ug/L	1.0	1		03/13/21 02:57	179601-23-1	
o-Xylene	44.0	ug/L	0.50	1		03/13/21 02:57	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/13/21 02:57	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/13/21 02:57	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		03/13/21 02:57	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-54	Lab ID: 92527327010	Collected: 03/11/21 10:30	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/13/21 03:21		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/13/21 03:21		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/13/21 03:21		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 03:21		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	98	%	70-130	1		03/13/21 03:21	460-00-4	
4-Bromofluorobenzene (PID) (S)	99	%	70-130	1		03/13/21 03:21	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:27	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 03:14	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 03:14	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 03:14	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 03:14	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 03:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 03:14	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 03:14	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 03:14	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 03:14	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 03:14	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 03:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 03:14	75-00-3	
Chloroform	1.9	ug/L	0.50	1		03/13/21 03:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 03:14	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 03:14	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 03:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 03:14	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 03:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 03:14	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 03:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 03:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 03:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 03:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 03:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 03:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 03:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 03:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 03:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 03:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 03:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 03:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 03:14	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-54	Lab ID: 92527327010	Collected: 03/11/21 10:30	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 03:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 03:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 03:14	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 03:14	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 03:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 03:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 03:14	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 03:14	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 03:14	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 03:14	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 03:14	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 03:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 03:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 03:14	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 03:14	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 03:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 03:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 03:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 03:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 03:14	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 03:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 03:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 03:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 03:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 03:14	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 03:14	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 03:14	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 03:14	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/13/21 03:14	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/13/21 03:14	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/13/21 03:14	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-58	Lab ID: 92527327011	Collected: 03/11/21 13:05	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/13/21 03:49		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/13/21 03:49		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/13/21 03:49		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 03:49		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	107	%	70-130	1		03/13/21 03:49	460-00-4	
4-Bromofluorobenzene (PID) (S)	107	%	70-130	1		03/13/21 03:49	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:30	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 03:32	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 03:32	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 03:32	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 03:32	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 03:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 03:32	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 03:32	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 03:32	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 03:32	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 03:32	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 03:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 03:32	75-00-3	
Chloroform	1.8	ug/L	0.50	1		03/13/21 03:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 03:32	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 03:32	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 03:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 03:32	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 03:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 03:32	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 03:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 03:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 03:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 03:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 03:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 03:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 03:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 03:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 03:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 03:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 03:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 03:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 03:32	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-58	Lab ID: 92527327011	Collected: 03/11/21 13:05	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 03:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 03:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 03:32	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 03:32	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 03:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 03:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 03:32	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 03:32	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 03:32	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 03:32	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 03:32	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 03:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 03:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 03:32	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 03:32	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 03:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 03:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 03:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 03:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 03:32	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 03:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 03:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 03:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 03:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 03:32	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 03:32	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 03:32	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 03:32	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/13/21 03:32	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/13/21 03:32	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/13/21 03:32	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Sample: MW-59	Lab ID: 92527327012	Collected: 03/11/21 11:55	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/13/21 04:18		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/13/21 04:18		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/13/21 04:18		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 04:18		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	108	%	70-130	1		03/13/21 04:18	460-00-4	
4-Bromofluorobenzene (PID) (S)	109	%	70-130	1		03/13/21 04:18	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:40	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 03:50	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 03:50	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 03:50	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/13/21 03:50	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 03:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 03:50	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 03:50	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 03:50	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 03:50	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 03:50	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 03:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 03:50	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/13/21 03:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 03:50	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 03:50	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 03:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 03:50	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 03:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 03:50	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 03:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 03:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 03:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 03:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 03:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 03:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 03:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 03:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 03:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 03:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 03:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 03:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 03:50	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-59	Lab ID: 92527327012	Collected: 03/11/21 11:55	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 03:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 03:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 03:50	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 03:50	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 03:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 03:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 03:50	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 03:50	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 03:50	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 03:50	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 03:50	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 03:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 03:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 03:50	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 03:50	127-18-4	
Toluene	<b>0.52</b>	ug/L	0.50	1		03/13/21 03:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 03:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 03:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 03:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 03:50	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 03:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 03:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 03:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 03:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 03:50	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 03:50	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 03:50	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 03:50	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/13/21 03:50	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/13/21 03:50	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/13/21 03:50	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-69	Lab ID: 92527327013	Collected: 03/11/21 10:18	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/13/21 04:46		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/13/21 04:46		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/13/21 04:46		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/13/21 04:46		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	103	%	70-130	1		03/13/21 04:46	460-00-4	
4-Bromofluorobenzene (PID) (S)	104	%	70-130	1		03/13/21 04:46	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:43	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 04:08	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 04:08	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 04:08	74-97-5	
Bromodichloromethane	0.99	ug/L	0.50	1		03/13/21 04:08	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 04:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 04:08	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 04:08	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 04:08	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 04:08	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 04:08	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 04:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 04:08	75-00-3	
Chloroform	5.4	ug/L	0.50	1		03/13/21 04:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 04:08	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 04:08	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 04:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 04:08	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/13/21 04:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 04:08	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 04:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 04:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 04:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 04:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 04:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 04:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 04:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 04:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 04:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 04:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 04:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 04:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 04:08	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-69	Lab ID: 92527327013	Collected: 03/11/21 10:18	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 04:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 04:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 04:08	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 04:08	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 04:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 04:08	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 04:08	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 04:08	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 04:08	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 04:08	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 04:08	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 04:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 04:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 04:08	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 04:08	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 04:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 04:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 04:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 04:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 04:08	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 04:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 04:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 04:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 04:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 04:08	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 04:08	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 04:08	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 04:08	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/13/21 04:08	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/13/21 04:08	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/13/21 04:08	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Sample: MW-71	Lab ID: 92527327014	Collected: 03/11/21 12:33	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 14:55		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 14:55		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 14:55		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 14:55		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	109	%	70-130	1		03/15/21 14:55	460-00-4	
4-Bromofluorobenzene (PID) (S)	106	%	70-130	1		03/15/21 14:55	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/16/21 01:45	03/16/21 10:46	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/13/21 04:26	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/13/21 04:26	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/13/21 04:26	74-97-5	
Bromodichloromethane	2.1	ug/L	0.50	1		03/13/21 04:26	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/13/21 04:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/13/21 04:26	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/13/21 04:26	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/13/21 04:26	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/13/21 04:26	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/13/21 04:26	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/13/21 04:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/13/21 04:26	75-00-3	
Chloroform	11.6	ug/L	0.50	1		03/13/21 04:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/13/21 04:26	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 04:26	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/13/21 04:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/13/21 04:26	96-12-8	
Dibromochloromethane	0.54	ug/L	0.50	1		03/13/21 04:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/13/21 04:26	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/13/21 04:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 04:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 04:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/13/21 04:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/13/21 04:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/13/21 04:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/13/21 04:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/13/21 04:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 04:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/13/21 04:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 04:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/13/21 04:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/13/21 04:26	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: MW-71	Lab ID: 92527327014	Collected: 03/11/21 12:33	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/13/21 04:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 04:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/13/21 04:26	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/13/21 04:26	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/13/21 04:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/13/21 04:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/13/21 04:26	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/13/21 04:26	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/13/21 04:26	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/13/21 04:26	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/13/21 04:26	103-65-1	
Styrene	ND	ug/L	0.50	1		03/13/21 04:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 04:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/13/21 04:26	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/13/21 04:26	127-18-4	
Toluene	ND	ug/L	0.50	1		03/13/21 04:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 04:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/13/21 04:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/13/21 04:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/13/21 04:26	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/13/21 04:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/13/21 04:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/13/21 04:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 04:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/13/21 04:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/13/21 04:26	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/13/21 04:26	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/13/21 04:26	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/13/21 04:26	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/13/21 04:26	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/13/21 04:26	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: DUP-1-20210311	Lab ID: 92527327015	Collected: 03/11/21 00:00	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 15:23		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 15:23		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 15:23		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 15:23		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	107	%	70-130	1		03/15/21 15:23	460-00-4	
4-Bromofluorobenzene (PID) (S)	103	%	70-130	1		03/15/21 15:23	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 01:53	03/17/21 21:01	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/15/21 14:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/15/21 14:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/15/21 14:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/15/21 14:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/15/21 14:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/15/21 14:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/15/21 14:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/15/21 14:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/15/21 14:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/15/21 14:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/15/21 14:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/15/21 14:47	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/15/21 14:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/15/21 14:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/15/21 14:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/15/21 14:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/15/21 14:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/15/21 14:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/15/21 14:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/15/21 14:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 14:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 14:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 14:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/15/21 14:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/15/21 14:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/15/21 14:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/15/21 14:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/15/21 14:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/15/21 14:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/15/21 14:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/15/21 14:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/15/21 14:47	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: DUP-1-20210311	Lab ID: 92527327015	Collected: 03/11/21 00:00	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/15/21 14:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/15/21 14:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/15/21 14:47	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/15/21 14:47	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/15/21 14:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/15/21 14:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/15/21 14:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/15/21 14:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/15/21 14:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/15/21 14:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/15/21 14:47	103-65-1	
Styrene	ND	ug/L	0.50	1		03/15/21 14:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/15/21 14:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/15/21 14:47	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/15/21 14:47	127-18-4	
Toluene	ND	ug/L	0.50	1		03/15/21 14:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/15/21 14:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/15/21 14:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/15/21 14:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/15/21 14:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/15/21 14:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/15/21 14:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/15/21 14:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/15/21 14:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/15/21 14:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/15/21 14:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/15/21 14:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/15/21 14:47	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		03/15/21 14:47	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		03/15/21 14:47	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/15/21 14:47	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

Sample: Trip Blank	Lab ID: 92527327016	Collected: 03/11/21 00:00	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/15/21 13:17	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/15/21 13:17	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/15/21 13:17	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/15/21 13:17	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/15/21 13:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/15/21 13:17	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/15/21 13:17	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/15/21 13:17	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/15/21 13:17	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/15/21 13:17	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/15/21 13:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/15/21 13:17	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/15/21 13:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/15/21 13:17	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/15/21 13:17	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/15/21 13:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/15/21 13:17	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/15/21 13:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/15/21 13:17	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/15/21 13:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 13:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 13:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 13:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/15/21 13:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/15/21 13:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/15/21 13:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/15/21 13:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/15/21 13:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/15/21 13:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/15/21 13:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/15/21 13:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/15/21 13:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/15/21 13:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/15/21 13:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/15/21 13:17	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/15/21 13:17	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/15/21 13:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/15/21 13:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/15/21 13:17	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/15/21 13:17	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/15/21 13:17	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/15/21 13:17	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/15/21 13:17	103-65-1	
Styrene	ND	ug/L	0.50	1		03/15/21 13:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/15/21 13:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/15/21 13:17	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Sample: Trip Blank		Lab ID: 92527327016		Collected: 03/11/21 00:00	Received: 03/11/21 17:42	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/15/21 13:17	127-18-4	
Toluene	ND	ug/L	0.50	1		03/15/21 13:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/15/21 13:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/15/21 13:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/15/21 13:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/15/21 13:17	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/15/21 13:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/15/21 13:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/15/21 13:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/15/21 13:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/15/21 13:17	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/15/21 13:17	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/15/21 13:17	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/15/21 13:17	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/15/21 13:17	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		03/15/21 13:17	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/15/21 13:17	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

QC Batch:	606373	Analysis Method:	MADEP VPH
QC Batch Method:	MADEP VPH	Analysis Description:	VPH NC Water
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92527327001, 92527327002, 92527327003, 92527327004, 92527327005, 92527327006, 92527327007, 92527327008, 92527327009, 92527327010, 92527327011, 92527327012, 92527327013

METHOD BLANK: 3194584 Matrix: Water  
Associated Lab Samples: 92527327001, 92527327002, 92527327003, 92527327004, 92527327005, 92527327006, 92527327007, 92527327008, 92527327009, 92527327010, 92527327011, 92527327012, 92527327013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/12/21 19:17	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/12/21 19:17	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/12/21 19:17	N2
4-Bromofluorobenzene (FID) (S)	%	99	70-130	03/12/21 19:17	
4-Bromofluorobenzene (PID) (S)	%	99	70-130	03/12/21 19:17	

Parameter	Units	3194585		3194586		% Rec	% Rec	% Rec	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec						
Aliphatic (C05-C08)	ug/L	300	314	321	105	107	70-130	2	25	N2	
Aliphatic (C09-C12)	ug/L	300	294	335	98	112	70-130	13	25	N2	
Aromatic (C09-C10)	ug/L	100	91.9	102	92	102	70-130	10	25	N2	
4-Bromofluorobenzene (FID) (S)	%				86	99	70-130				
4-Bromofluorobenzene (PID) (S)	%				86	99	70-130				

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

QC Batch: 606584	Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH	Analysis Description: VPH NC Water
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527327014, 92527327015

METHOD BLANK: 3195792 Matrix: Water

Associated Lab Samples: 92527327014, 92527327015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/15/21 13:58	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/15/21 13:58	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/15/21 13:58	N2
4-Bromofluorobenzene (FID) (S)	%	104	70-130	03/15/21 13:58	
4-Bromofluorobenzene (PID) (S)	%	101	70-130	03/15/21 13:58	

LABORATORY CONTROL SAMPLE & LCSD: 3195793

3195794

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	338	333	113	111	70-130	1	25	N2
Aliphatic (C09-C12)	ug/L	300	331	319	110	106	70-130	4	25	N2
Aromatic (C09-C10)	ug/L	100	99.4	95.8	99	96	70-130	4	25	N2
4-Bromofluorobenzene (FID) (S)	%				103	101	70-130			
4-Bromofluorobenzene (PID) (S)	%				99	98	70-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

QC Batch:	606771	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92527327001, 92527327002, 92527327003, 92527327004, 92527327005, 92527327006, 92527327007, 92527327008, 92527327009, 92527327010, 92527327011, 92527327012, 92527327013, 92527327014

METHOD BLANK: 3196835 Matrix: Water

Associated Lab Samples: 92527327001, 92527327002, 92527327003, 92527327004, 92527327005, 92527327006, 92527327007, 92527327008, 92527327009, 92527327010, 92527327011, 92527327012, 92527327013, 92527327014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/16/21 10:50	

LABORATORY CONTROL SAMPLE: 3196836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196837 3196838

Parameter	92525642003 Units	92525642003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	480	495	96	99	75-125	3	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

QC Batch: 607049	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92527327015

METHOD BLANK: 3198343 Matrix: Water

Associated Lab Samples: 92527327015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/17/21 20:55	

LABORATORY CONTROL SAMPLE: 3198344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198345 3198346

Parameter	Units	92527327015		3198346		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	477	493	95	98	75-125	3

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

QC Batch: 606355

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527327001, 92527327002, 92527327003, 92527327004, 92527327005, 92527327006, 92527327007, 92527327008, 92527327009, 92527327010, 92527327011, 92527327012, 92527327013, 92527327014

METHOD BLANK: 3194466

Matrix: Water

Associated Lab Samples: 92527327001, 92527327002, 92527327003, 92527327004, 92527327005, 92527327006, 92527327007, 92527327008, 92527327009, 92527327010, 92527327011, 92527327012, 92527327013, 92527327014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,1-Dichloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,1-Dichloroethene	ug/L	ND	0.50	03/12/21 22:30	
1,1-Dichloropropene	ug/L	ND	0.50	03/12/21 22:30	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/12/21 22:30	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/12/21 22:30	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/12/21 22:30	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/12/21 22:30	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/12/21 22:30	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/12/21 22:30	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:30	
1,2-Dichloroethane	ug/L	ND	0.50	03/12/21 22:30	
1,2-Dichloropropane	ug/L	ND	0.50	03/12/21 22:30	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/12/21 22:30	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:30	
1,3-Dichloropropane	ug/L	ND	0.50	03/12/21 22:30	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/12/21 22:30	
2,2-Dichloropropane	ug/L	ND	0.50	03/12/21 22:30	
2-Chlorotoluene	ug/L	ND	0.50	03/12/21 22:30	
4-Chlorotoluene	ug/L	ND	0.50	03/12/21 22:30	
Benzene	ug/L	ND	0.50	03/12/21 22:30	
Bromobenzene	ug/L	ND	0.50	03/12/21 22:30	
Bromochloromethane	ug/L	ND	0.50	03/12/21 22:30	
Bromodichloromethane	ug/L	ND	0.50	03/12/21 22:30	
Bromoform	ug/L	ND	0.50	03/12/21 22:30	
Bromomethane	ug/L	ND	5.0	03/12/21 22:30	
Carbon tetrachloride	ug/L	ND	0.50	03/12/21 22:30	
Chlorobenzene	ug/L	ND	0.50	03/12/21 22:30	
Chloroethane	ug/L	ND	1.0	03/12/21 22:30	
Chloroform	ug/L	ND	0.50	03/12/21 22:30	
Chloromethane	ug/L	ND	1.0	03/12/21 22:30	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 22:30	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 22:30	
Dibromochloromethane	ug/L	ND	0.50	03/12/21 22:30	
Dibromomethane	ug/L	ND	0.50	03/12/21 22:30	
Dichlorodifluoromethane	ug/L	ND	0.50	03/12/21 22:30	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

METHOD BLANK: 3194466

Matrix: Water

Associated Lab Samples: 92527327001, 92527327002, 92527327003, 92527327004, 92527327005, 92527327006, 92527327007, 92527327008, 92527327009, 92527327010, 92527327011, 92527327012, 92527327013, 92527327014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	0.50	03/12/21 22:30	
Ethylbenzene	ug/L	ND	0.50	03/12/21 22:30	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/12/21 22:30	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/12/21 22:30	
m&p-Xylene	ug/L	ND	1.0	03/12/21 22:30	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/12/21 22:30	
Methylene Chloride	ug/L	ND	2.0	03/12/21 22:30	
n-Butylbenzene	ug/L	ND	0.50	03/12/21 22:30	
n-Propylbenzene	ug/L	ND	0.50	03/12/21 22:30	
Naphthalene	ug/L	ND	2.0	03/12/21 22:30	
o-Xylene	ug/L	ND	0.50	03/12/21 22:30	
sec-Butylbenzene	ug/L	ND	0.50	03/12/21 22:30	
Styrene	ug/L	ND	0.50	03/12/21 22:30	
tert-Butylbenzene	ug/L	ND	0.50	03/12/21 22:30	
Tetrachloroethene	ug/L	ND	0.50	03/12/21 22:30	
Toluene	ug/L	ND	0.50	03/12/21 22:30	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/12/21 22:30	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/12/21 22:30	
Trichloroethene	ug/L	ND	0.50	03/12/21 22:30	
Trichlorofluoromethane	ug/L	ND	1.0	03/12/21 22:30	
Vinyl chloride	ug/L	ND	1.0	03/12/21 22:30	
1,2-Dichloroethane-d4 (S)	%	99	70-130	03/12/21 22:30	
4-Bromofluorobenzene (S)	%	101	70-130	03/12/21 22:30	
Toluene-d8 (S)	%	99	70-130	03/12/21 22:30	

LABORATORY CONTROL SAMPLE: 3194467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	61.6	123	60-140	
1,1,1-Trichloroethane	ug/L	50	54.3	109	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	62.4	125	60-140	
1,1,2-Trichloroethane	ug/L	50	58.9	118	60-140	
1,1-Dichloroethane	ug/L	50	52.8	106	60-140	
1,1-Dichloroethene	ug/L	50	55.2	110	60-140	
1,1-Dichloropropene	ug/L	50	56.0	112	60-140	
1,2,3-Trichlorobenzene	ug/L	50	60.9	122	60-140	
1,2,3-Trichloropropane	ug/L	50	61.9	124	60-140	
1,2,4-Trichlorobenzene	ug/L	50	61.2	122	60-140	
1,2,4-Trimethylbenzene	ug/L	50	59.0	118	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	63.9	128	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	63.4	127	60-140	
1,2-Dichlorobenzene	ug/L	50	57.5	115	60-140	
1,2-Dichloroethane	ug/L	50	54.1	108	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

LABORATORY CONTROL SAMPLE: 3194467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	55.1	110	60-140	
1,3,5-Trimethylbenzene	ug/L	50	58.0	116	60-140	
1,3-Dichlorobenzene	ug/L	50	57.5	115	60-140	
1,3-Dichloropropane	ug/L	50	60.5	121	60-140	
1,4-Dichlorobenzene	ug/L	50	56.0	112	60-140	
2,2-Dichloropropane	ug/L	50	56.4	113	60-140	
2-Chlorotoluene	ug/L	50	56.7	113	60-140	
4-Chlorotoluene	ug/L	50	55.1	110	60-140	
Benzene	ug/L	50	55.7	111	60-140	
Bromobenzene	ug/L	50	55.6	111	60-140	
Bromochloromethane	ug/L	50	55.7	111	60-140	
Bromodichloromethane	ug/L	50	56.3	113	60-140	
Bromoform	ug/L	50	51.4	103	60-140	
Bromomethane	ug/L	50	53.4	107	60-140	
Carbon tetrachloride	ug/L	50	56.7	113	60-140	
Chlorobenzene	ug/L	50	57.0	114	60-140	
Chloroethane	ug/L	50	46.3	93	60-140	
Chloroform	ug/L	50	52.7	105	60-140	
Chloromethane	ug/L	50	43.8	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	60-140	
cis-1,3-Dichloropropene	ug/L	50	61.3	123	60-140	
Dibromochloromethane	ug/L	50	63.0	126	60-140	
Dibromomethane	ug/L	50	59.1	118	60-140	
Dichlorodifluoromethane	ug/L	50	50.7	101	60-140	
Diisopropyl ether	ug/L	50	50.6	101	60-140	
Ethylbenzene	ug/L	50	57.5	115	60-140	
Hexachloro-1,3-butadiene	ug/L	50	61.7	123	60-140	
Isopropylbenzene (Cumene)	ug/L	50	58.7	117	60-140	
m&p-Xylene	ug/L	100	114	114	60-140	
Methyl-tert-butyl ether	ug/L	50	56.3	113	60-140	
Methylene Chloride	ug/L	50	47.7	95	60-140	
n-Butylbenzene	ug/L	50	62.0	124	60-140	
n-Propylbenzene	ug/L	50	55.3	111	60-140	
Naphthalene	ug/L	50	60.0	120	60-140	
o-Xylene	ug/L	50	57.9	116	60-140	
sec-Butylbenzene	ug/L	50	57.5	115	60-140	
Styrene	ug/L	50	57.3	115	60-140	
tert-Butylbenzene	ug/L	50	47.0	94	60-140	
Tetrachloroethene	ug/L	50	58.4	117	60-140	
Toluene	ug/L	50	54.6	109	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.2	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.4	119	60-140	
Trichloroethene	ug/L	50	55.5	111	60-140	
Trichlorofluoromethane	ug/L	50	48.8	98	60-140	
Vinyl chloride	ug/L	50	47.5	95	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

LABORATORY CONTROL SAMPLE: 3194467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3194468 3194469

Parameter	92527326002		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	23.7	23.9	118	119	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.6	22.8	113	114	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	23.1	24.2	116	121	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.8	23.4	114	117	60-140	2	
1,1-Dichloroethane	ug/L	ND	20	20	21.8	22.1	109	110	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	22.9	23.1	115	115	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	23.4	23.9	117	119	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	24.0	24.6	120	123	60-140	2	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.7	23.3	114	116	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	24.5	25.5	122	127	60-140	4	
1,2,4-Trimethylbenzene	ug/L	12.3	20	20	35.8	37.7	117	127	60-140	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.0	24.3	110	122	60-140	10	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	23.3	24.5	117	123	60-140	5	
1,2-Dichlorobenzene	ug/L	ND	20	20	22.2	23.0	111	115	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	21.4	22.0	107	110	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	22.1	22.6	111	113	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	29.9	31.6	150	158	60-140	5	M1
1,3-Dichlorobenzene	ug/L	ND	20	20	22.3	23.4	112	117	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	22.0	23.6	110	118	60-140	7	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.2	23.2	111	116	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	23.7	23.8	118	119	60-140	0	
2-Chlorotoluene	ug/L	ND	20	20	20.6	21.3	103	107	60-140	4	
4-Chlorotoluene	ug/L	ND	20	20	22.3	22.8	112	114	60-140	2	
Benzene	ug/L	3.5	20	20	25.8	26.4	111	115	60-140	2	
Bromobenzene	ug/L	ND	20	20	21.8	22.3	109	111	60-140	2	
Bromochloromethane	ug/L	ND	20	20	22.9	22.3	115	112	60-140	3	
Bromodichloromethane	ug/L	ND	20	20	22.0	23.0	110	115	60-140	5	
Bromoform	ug/L	ND	20	20	19.7	20.9	99	104	60-140	6	
Bromomethane	ug/L	ND	20	20	21.0	21.1	105	106	60-140	1	
Carbon tetrachloride	ug/L	ND	20	20	23.4	24.1	117	121	60-140	3	
Chlorobenzene	ug/L	ND	20	20	22.4	23.4	112	117	60-140	4	
Chloroethane	ug/L	ND	20	20	20.6	18.6	103	93	60-140	10	
Chloroform	ug/L	ND	20	20	21.9	21.5	110	108	60-140	2	
Chloromethane	ug/L	ND	20	20	16.8	16.8	84	84	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	20.7	101	104	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	23.3	24.0	116	120	60-140	3	
Dibromochloromethane	ug/L	ND	20	20	23.3	24.5	117	122	60-140	5	
Dibromomethane	ug/L	ND	20	20	22.5	23.1	113	115	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	12.0	11.9	60	60	60-140	0	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Parameter	92527326002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
Diisopropyl ether	ug/L	2.9	20	20	22.9	23.1	100	101	60-140	1				
Ethylbenzene	ug/L	2.9	20	20	25.8	27.0	114	120	60-140	5				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	27.2	137	136	60-140	1				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	23.8	24.7	119	123	60-140	4				
m&p-Xylene	ug/L	22.0	40	40	66.6	69.5	111	119	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	20	20	21.1	21.2	106	106	60-140	0				
Methylene Chloride	ug/L	ND	20	20	18.7	18.9	94	94	60-140	1				
n-Butylbenzene	ug/L	ND	20	20	28.1	28.8	141	144	60-140	3	M1			
n-Propylbenzene	ug/L	ND	20	20	23.6	24.3	118	122	60-140	3				
Naphthalene	ug/L	ND	20	20	23.9	24.9	113	118	60-140	4				
o-Xylene	ug/L	20.3	20	20	42.4	43.8	111	117	60-140	3				
sec-Butylbenzene	ug/L	ND	20	20	23.7	24.5	119	123	60-140	3				
Styrene	ug/L	ND	20	20	22.6	23.0	113	115	60-140	2				
tert-Butylbenzene	ug/L	ND	20	20	19.1	19.4	96	97	60-140	1				
Tetrachloroethene	ug/L	ND	20	20	23.0	24.2	115	121	60-140	5				
Toluene	ug/L	12.5	20	20	34.6	36.1	110	118	60-140	4				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.1	21.9	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.4	22.9	112	114	60-140	2				
Trichloroethene	ug/L	ND	20	20	22.9	23.7	115	119	60-140	4				
Trichlorofluoromethane	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
Vinyl chloride	ug/L	ND	20	20	17.0	16.9	85	84	60-140	1				
1,2-Dichloroethane-d4 (S)	%						101	99	70-130					
4-Bromofluorobenzene (S)	%						98	101	70-130					
Toluene-d8 (S)	%						97	98	70-130					

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

QC Batch: 606550

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527327015, 92527327016

METHOD BLANK: 3195550

Matrix: Water

Associated Lab Samples: 92527327015, 92527327016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,1-Dichloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,1-Dichloroethene	ug/L	ND	0.50	03/15/21 12:59	
1,1-Dichloropropene	ug/L	ND	0.50	03/15/21 12:59	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/15/21 12:59	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/15/21 12:59	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/15/21 12:59	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/15/21 12:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/15/21 12:59	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/15/21 12:59	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/15/21 12:59	
1,2-Dichloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,2-Dichloropropane	ug/L	ND	0.50	03/15/21 12:59	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/15/21 12:59	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/15/21 12:59	
1,3-Dichloropropane	ug/L	ND	0.50	03/15/21 12:59	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/15/21 12:59	
2,2-Dichloropropane	ug/L	ND	0.50	03/15/21 12:59	
2-Chlorotoluene	ug/L	ND	0.50	03/15/21 12:59	
4-Chlorotoluene	ug/L	ND	0.50	03/15/21 12:59	
Benzene	ug/L	ND	0.50	03/15/21 12:59	
Bromobenzene	ug/L	ND	0.50	03/15/21 12:59	
Bromochloromethane	ug/L	ND	0.50	03/15/21 12:59	
Bromodichloromethane	ug/L	ND	0.50	03/15/21 12:59	
Bromoform	ug/L	ND	0.50	03/15/21 12:59	
Bromomethane	ug/L	ND	5.0	03/15/21 12:59	
Carbon tetrachloride	ug/L	ND	0.50	03/15/21 12:59	
Chlorobenzene	ug/L	ND	0.50	03/15/21 12:59	
Chloroethane	ug/L	ND	1.0	03/15/21 12:59	
Chloroform	ug/L	ND	0.50	03/15/21 12:59	
Chloromethane	ug/L	ND	1.0	03/15/21 12:59	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/15/21 12:59	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/15/21 12:59	
Dibromochloromethane	ug/L	ND	0.50	03/15/21 12:59	
Dibromomethane	ug/L	ND	0.50	03/15/21 12:59	
Dichlorodifluoromethane	ug/L	ND	0.50	03/15/21 12:59	
Diisopropyl ether	ug/L	ND	0.50	03/15/21 12:59	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

METHOD BLANK: 3195550

Matrix: Water

Associated Lab Samples: 92527327015, 92527327016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/15/21 12:59	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/15/21 12:59	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/15/21 12:59	
m&p-Xylene	ug/L	ND	1.0	03/15/21 12:59	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/15/21 12:59	
Methylene Chloride	ug/L	ND	2.0	03/15/21 12:59	
n-Butylbenzene	ug/L	ND	0.50	03/15/21 12:59	
n-Propylbenzene	ug/L	ND	0.50	03/15/21 12:59	
Naphthalene	ug/L	ND	2.0	03/15/21 12:59	
o-Xylene	ug/L	ND	0.50	03/15/21 12:59	
sec-Butylbenzene	ug/L	ND	0.50	03/15/21 12:59	
Styrene	ug/L	ND	0.50	03/15/21 12:59	
tert-Butylbenzene	ug/L	ND	0.50	03/15/21 12:59	
Tetrachloroethene	ug/L	ND	0.50	03/15/21 12:59	
Toluene	ug/L	ND	0.50	03/15/21 12:59	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/15/21 12:59	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/15/21 12:59	
Trichloroethene	ug/L	ND	0.50	03/15/21 12:59	
Trichlorofluoromethane	ug/L	ND	1.0	03/15/21 12:59	
Vinyl chloride	ug/L	ND	1.0	03/15/21 12:59	
1,2-Dichloroethane-d4 (S)	%	104	70-130	03/15/21 12:59	
4-Bromofluorobenzene (S)	%	98	70-130	03/15/21 12:59	
Toluene-d8 (S)	%	102	70-130	03/15/21 12:59	

LABORATORY CONTROL SAMPLE: 3195551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.3	105	60-140	
1,1,1-Trichloroethane	ug/L	50	51.7	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	60-140	
1,1,2-Trichloroethane	ug/L	50	49.6	99	60-140	
1,1-Dichloroethane	ug/L	50	51.1	102	60-140	
1,1-Dichloroethene	ug/L	50	53.6	107	60-140	
1,1-Dichloropropene	ug/L	50	50.3	101	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.0	92	60-140	
1,2,3-Trichloropropane	ug/L	50	49.4	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.3	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.0	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.9	104	60-140	
1,2-Dichlorobenzene	ug/L	50	49.1	98	60-140	
1,2-Dichloroethane	ug/L	50	47.1	94	60-140	
1,2-Dichloropropane	ug/L	50	53.7	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.6	95	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

LABORATORY CONTROL SAMPLE: 3195551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.8	100	60-140	
1,3-Dichloropropane	ug/L	50	51.0	102	60-140	
1,4-Dichlorobenzene	ug/L	50	47.6	95	60-140	
2,2-Dichloropropane	ug/L	50	52.5	105	60-140	
2-Chlorotoluene	ug/L	50	50.3	101	60-140	
4-Chlorotoluene	ug/L	50	48.9	98	60-140	
Benzene	ug/L	50	51.6	103	60-140	
Bromobenzene	ug/L	50	49.6	99	60-140	
Bromochloromethane	ug/L	50	51.0	102	60-140	
Bromodichloromethane	ug/L	50	49.5	99	60-140	
Bromoform	ug/L	50	46.9	94	60-140	
Bromomethane	ug/L	50	63.0	126	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	52.7	105	60-140	
Chloroethane	ug/L	50	45.9	92	60-140	
Chloroform	ug/L	50	50.4	101	60-140	
Chloromethane	ug/L	50	44.2	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	49.5	99	60-140	
Dichlorodifluoromethane	ug/L	50	49.8	100	60-140	
Diisopropyl ether	ug/L	50	48.2	96	60-140	
Ethylbenzene	ug/L	50	51.1	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.1	104	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.9	104	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	49.5	99	60-140	
Methylene Chloride	ug/L	50	47.7	95	60-140	
n-Butylbenzene	ug/L	50	49.0	98	60-140	
n-Propylbenzene	ug/L	50	49.0	98	60-140	
Naphthalene	ug/L	50	49.4	99	60-140	
o-Xylene	ug/L	50	51.1	102	60-140	
sec-Butylbenzene	ug/L	50	48.1	96	60-140	
Styrene	ug/L	50	53.2	106	60-140	
tert-Butylbenzene	ug/L	50	42.0	84	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.8	106	60-140	
Trichloroethene	ug/L	50	52.8	106	60-140	
Trichlorofluoromethane	ug/L	50	49.0	98	60-140	
Vinyl chloride	ug/L	50	46.3	93	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

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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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Parameter	92527177003		MS	MSD	3195552		3195553		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	443	460	111	115	60-140	4			
1,1,1-Trichloroethane	ug/L	ND	400	400	450	459	113	115	60-140	2			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	426	428	106	107	60-140	0			
1,1,2-Trichloroethane	ug/L	ND	400	400	421	449	105	112	60-140	7			
1,1-Dichloroethane	ug/L	ND	400	400	442	445	111	111	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	477	488	119	122	60-140	2			
1,1-Dichloropropene	ug/L	ND	400	400	438	451	109	113	60-140	3			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	328	345	82	86	60-140	5			
1,2,3-Trichloropropane	ug/L	ND	400	400	405	419	101	105	60-140	3			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	341	368	85	92	60-140	8			
1,2,4-Trimethylbenzene	ug/L	784	400	400	1160	1190	93	101	60-140	3			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	402	437	101	109	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	429	445	107	111	60-140	4			
1,2-Dichlorobenzene	ug/L	ND	400	400	393	402	98	101	60-140	2			
1,2-Dichloroethane	ug/L	ND	400	400	420	433	105	108	60-140	3			
1,2-Dichloropropane	ug/L	ND	400	400	453	480	113	120	60-140	6			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	407	426	102	106	60-140	5			
1,3-Dichlorobenzene	ug/L	ND	400	400	382	401	96	100	60-140	5			
1,3-Dichloropropane	ug/L	ND	400	400	423	439	106	110	60-140	4			
1,4-Dichlorobenzene	ug/L	ND	400	400	371	388	93	97	60-140	5			
2,2-Dichloropropane	ug/L	ND	400	400	402	404	101	101	60-140	0			
2-Chlorotoluene	ug/L	ND	400	400	413	427	103	107	60-140	3			
4-Chlorotoluene	ug/L	ND	400	400	387	404	97	101	60-140	4			
Benzene	ug/L	2310	400	400	2700	2760	99	113	60-140	2			
Bromobenzene	ug/L	ND	400	400	414	423	103	106	60-140	2			
Bromochloromethane	ug/L	ND	400	400	423	441	106	110	60-140	4			
Bromodichloromethane	ug/L	ND	400	400	419	423	105	106	60-140	1			
Bromoform	ug/L	ND	400	400	379	392	95	98	60-140	3			
Bromomethane	ug/L	ND	400	400	512	507	128	127	60-140	1			
Carbon tetrachloride	ug/L	ND	400	400	459	468	115	117	60-140	2			
Chlorobenzene	ug/L	ND	400	400	442	452	110	113	60-140	2			
Chloroethane	ug/L	ND	400	400	408	426	102	106	60-140	4			
Chloroform	ug/L	ND	400	400	434	425	108	106	60-140	2			
Chloromethane	ug/L	ND	400	400	351	379	88	95	60-140	7			
cis-1,2-Dichloroethene	ug/L	ND	400	400	423	420	106	105	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	438	457	109	114	60-140	4			
Dibromochloromethane	ug/L	ND	400	400	446	443	112	111	60-140	1			
Dibromomethane	ug/L	ND	400	400	447	455	112	114	60-140	2			
Dichlorodifluoromethane	ug/L	ND	400	400	388	380	97	95	60-140	2			
Diisopropyl ether	ug/L	ND	400	400	422	416	105	104	60-140	1			
Ethylbenzene	ug/L	1020	400	400	1440	1460	107	111	60-140	1			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	402	429	101	107	60-140	6			
Isopropylbenzene (Cumene)	ug/L	36.5	400	400	463	477	107	110	60-140	3			
m&p-Xylene	ug/L	142	800	800	997	1050	107	113	60-140	5			
Methyl-tert-butyl ether	ug/L	ND	400	400	419	420	105	105	60-140	0			
Methylene Chloride	ug/L	ND	400	400	418	422	105	106	60-140	1			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Parameter	92527177003		MS		MSD		3195552		3195553		Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	
n-Butylbenzene	ug/L	ND	400	400	385	401	96	100	60-140	4	
n-Propylbenzene	ug/L	104	400	400	494	511	98	102	60-140	3	
Naphthalene	ug/L	307	400	400	584	637	69	82	60-140	9	
o-Xylene	ug/L	42.0	400	400	465	483	106	110	60-140	4	
sec-Butylbenzene	ug/L	ND	400	400	404	420	101	105	60-140	4	
Styrene	ug/L	ND	400	400	429	442	107	111	60-140	3	
tert-Butylbenzene	ug/L	ND	400	400	357	364	89	91	60-140	2	
Tetrachloroethene	ug/L	ND	400	400	416	426	104	106	60-140	2	
Toluene	ug/L	40.0	400	400	472	496	108	114	60-140	5	
trans-1,2-Dichloroethene	ug/L	ND	400	400	436	449	109	112	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	400	400	424	439	106	110	60-140	3	
Trichloroethene	ug/L	ND	400	400	451	470	113	118	60-140	4	
Trichlorofluoromethane	ug/L	ND	400	400	448	451	112	113	60-140	1	
Vinyl chloride	ug/L	ND	400	400	404	396	101	99	60-140	2	
1,2-Dichloroethane-d4 (S)	%						103	102	70-130		
4-Bromofluorobenzene (S)	%						98	98	70-130		
Toluene-d8 (S)	%						99	99	70-130		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527327

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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.

### ANALYTE QUALIFIERS

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527327

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527327001	MW-01	MADEP VPH	606373		
92527327002	MW-02	MADEP VPH	606373		
92527327003	MW-06	MADEP VPH	606373		
92527327004	MW-09	MADEP VPH	606373		
92527327005	MW-12	MADEP VPH	606373		
92527327006	MW-29	MADEP VPH	606373		
92527327007	MW-30	MADEP VPH	606373		
92527327008	MW-41	MADEP VPH	606373		
92527327009	MW-52	MADEP VPH	606373		
92527327010	MW-54	MADEP VPH	606373		
92527327011	MW-58	MADEP VPH	606373		
92527327012	MW-59	MADEP VPH	606373		
92527327013	MW-69	MADEP VPH	606373		
92527327014	MW-71	MADEP VPH	606584		
92527327015	DUP-1-20210311	MADEP VPH	606584		
92527327001	MW-01	EPA 3010A	606771	EPA 6010D	606788
92527327002	MW-02	EPA 3010A	606771	EPA 6010D	606788
92527327003	MW-06	EPA 3010A	606771	EPA 6010D	606788
92527327004	MW-09	EPA 3010A	606771	EPA 6010D	606788
92527327005	MW-12	EPA 3010A	606771	EPA 6010D	606788
92527327006	MW-29	EPA 3010A	606771	EPA 6010D	606788
92527327007	MW-30	EPA 3010A	606771	EPA 6010D	606788
92527327008	MW-41	EPA 3010A	606771	EPA 6010D	606788
92527327009	MW-52	EPA 3010A	606771	EPA 6010D	606788
92527327010	MW-54	EPA 3010A	606771	EPA 6010D	606788
92527327011	MW-58	EPA 3010A	606771	EPA 6010D	606788
92527327012	MW-59	EPA 3010A	606771	EPA 6010D	606788
92527327013	MW-69	EPA 3010A	606771	EPA 6010D	606788
92527327014	MW-71	EPA 3010A	606771	EPA 6010D	606788
92527327015	DUP-1-20210311	EPA 3010A	607049	EPA 6010D	607079
92527327001	MW-01	SM 6200B	606355		
92527327002	MW-02	SM 6200B	606355		
92527327003	MW-06	SM 6200B	606355		
92527327004	MW-09	SM 6200B	606355		
92527327005	MW-12	SM 6200B	606355		
92527327006	MW-29	SM 6200B	606355		
92527327007	MW-30	SM 6200B	606355		
92527327008	MW-41	SM 6200B	606355		
92527327009	MW-52	SM 6200B	606355		
92527327010	MW-54	SM 6200B	606355		
92527327011	MW-58	SM 6200B	606355		
92527327012	MW-59	SM 6200B	606355		
92527327013	MW-69	SM 6200B	606355		
92527327014	MW-71	SM 6200B	606355		
92527327015	DUP-1-20210311	SM 6200B	606550		
92527327016	Trip Blank	SM 6200B	606550		

### REPORT OF LABORATORY ANALYSIS

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LAB USE ONLY

WO#: 92527327

Container Pre  
3 3 1

LAB USE ONLY  
A  
92527327

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
Billing Information:

Company: **AECOM**  
Address: 6000 Pinview Rd, Suite 200, Charlotte, NC 28210  
Report To: **Andy Wreschnig**  
Copy To: **Andy Wreschnig**  
Email To: **andrew.wreschnig@aecom.com**  
Site Collection Info/Address:

Customer Project Name/Number: **Colonial Pipeline**  
Phone: (704) 522-0330  
Email: **andrew.wreschnig@aecom.com**  
State: /  
County/City: /  
Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET  
Site/Facility ID #: /  
Compliance Monitoring? [ ] Yes [ ] No  
DW PWS ID #: /  
DW Location Code: /  
Immediately Packed on Ice: [ ] Yes [ ] No  
Turnaround Date Required: /  
Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold: [ ]  
\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)  
Analysis:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW-01	WT	G	3/11/21	10:50				8
MW-02				15:40				
MW-06				13:05				
MW-0A				12:20				
MW-12				15:20				
MW-2A				10:10				
MW-30				14:05				
MW-41				15:10				
MW-52				15:05				
MW-54				10:30				

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: (Wet) Blue Dry None  
Packing Material Used: **Bubble bags**  
Radchem sample(s) screened (<500 cpm): Y N (NA)  
Received by/Company: (Signature) **AD PACE GVL**

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
<b>Emily D. Jove / AECOM</b>	3/11/2021	<b>AD PACE GVL</b>	3/11/21 17:42

Analyses

Lab Sample Receipt Checklist:	Lab Profile/Line:
Custody Seals Present/Intact Y/N NA	92527327
Custody Signatures Present Y/N NA	001
Collector Signature Present Y/N NA	002
Bottles Intact Y/N NA	003
Correct Bottles Y/N NA	004
Sufficient Volume Y/N NA	005
Samples Received on Ice Y/N NA	006
VOA - Headspace Acceptable Y/N NA	007
USDA Regulated Soils Y/N NA	008
Samples in Holding Time Y/N NA	009
Residual Chlorine Present Y/N NA	010
Cl Strips: 923918AV	
Sample pH Acceptable Y/N NA	
pH Strips: 923918AV	
Sulfide Present Y/N NA	
Lead Acetate Strips: Y/N NA	
LAB USE ONLY:	
Lab Sample # / Comments:	

Lab Sample Temperature Info:  
Temp Blank Received: Y N (NA)  
Therm ID#: 927064  
Cooler 1 Temp Upon Receipt: 2.3 oC  
Cooler 1 Therm Corr. Factor: 0 oC  
Cooler 1 Corrected Temp: 2.3 oC  
Comments:  
Trip Blank Received: (HCL) MeOH TSP Other  
Non Conformance(s): YES / NO  
Page: 1 of 2

Lab Tracking #: 2618816  
Samples received via: FEDEX UPS Client Courier Pace Courier  
Date/Time: 3/11/21 17:42  
Table #: /  
Acctnum: /  
Template: /  
Prelogin: /  
PM: /  
PB: /

LAB USE ONLY - Affix Wow

**WO# : 92527327**

PM: NMG Due Date: 03/18/21

ALL SHAI CLIENT : 92-AECOM CHA

Container: Preservative T

3 3 1

3 3 1

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:
	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact Y <input checked="" type="checkbox"/> N NA
	Custody Signatures Present Y <input checked="" type="checkbox"/> N NA
	Collector Signatures Present Y <input checked="" type="checkbox"/> N NA
	Bottles Intact Y <input checked="" type="checkbox"/> N NA
	Correct Bottles Y <input checked="" type="checkbox"/> N NA
	Sufficient Volume Y <input checked="" type="checkbox"/> N NA
	Samples Received on Ice Y <input checked="" type="checkbox"/> N NA
	VOA - Headspace Acceptable Y <input checked="" type="checkbox"/> N NA
	USDA Regulated Soils Y <input checked="" type="checkbox"/> N NA
	Samples in Holding Time Y <input checked="" type="checkbox"/> N NA
	Residual Chlorine Present Y <input checked="" type="checkbox"/> N NA
	Cl Strips: Y <input checked="" type="checkbox"/> N NA
	Sample pH Acceptable Y <input checked="" type="checkbox"/> N NA
	pH Strips: <u>72.59   8 AM</u> Y <input checked="" type="checkbox"/> N NA
	Sulfide Present Y <input checked="" type="checkbox"/> N NA
	Lead Acetate Strips: Y <input checked="" type="checkbox"/> N NA
	LAB USE ONLY:
	Lab Sample # / Comments:
	<u>92527327</u>
	<u>011</u>
	<u>012</u>
	<u>013</u>
	<u>014</u>
	<u>015</u>
	<u>016</u>

CHAIN-OF-CUSTODY Analytical Request Document		SHORT HOLDS PRESENT (<72 hours):		Lab Tracking #:		Lab Sample Temperature Info:	
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields				Y <input checked="" type="checkbox"/> N/A		Temp Blank Received: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Billing information:				2618815		Therm ID#: <u>921064</u>	
Company: AECOM				Samples received via: FEDEX UPS Client Courier Pace Courier		Cooler 1 Temp Upon Receipt: <u>2.3</u> oC	
Address: <u>6000 Parkway Rd, Suite 200</u>				Date/Time: <u>3/16/21 1742</u>		Cooler 1 Therm Corr. Factor: <u>0</u> oC	
Report To: <u>Andy Wreschnig</u>				Date/Time:		Cooler 1 Corrected Temp: <u>2.3</u> oC	
Copy To:				Date/Time:		Comments:	
Email To: <u>Andrew.Wreschnig@ae.com</u>				Date/Time:		Trip Blank Received: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> Other	
Site Collection Info/Address:				Date/Time:		Non Conformance(s):	
State: / County/City: / Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET				Date/Time:		YES / NO	
Compliance Monitoring: [ ] Yes [ ] No							
DW PWS ID #: / DW Location Code:							
Immediately Packed on Ice: [ ] Yes [ ] No							
Field Filtered (if applicable): [ ] Yes [ ] No							
Analysis:							
* Matrix Code: (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)							
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Res Cl	# of Ctns	
<u>MW-5B</u>	<u>WT</u>	<u>G</u>	<u>3/16/21</u>	<u>1305</u>	<u>X</u>	<u>8</u>	<u>6209</u>
<u>MW-5A</u>	<u>I</u>	<u>I</u>	<u>1155</u>		<u>I</u>		<u>HJA</u>
<u>MW-6A</u>	<u>I</u>	<u>I</u>	<u>1016</u>		<u>I</u>		<u>VPL</u>
<u>MW-7</u>	<u>I</u>	<u>I</u>	<u>1233</u>		<u>I</u>		<u>X</u>
<u>DUP-1-20210311</u>	<u>I</u>	<u>I</u>					
<u>Trip Blank</u>	<u>I</u>	<u>I</u>					
Customer Remarks / Special Conditions / Possible Hazards:							
Type of Ice Used: <u>Wet</u> Blue Dry None							
Packing Material Used: <u>Bubble bags</u>							
Radchem sample(s) screened (<500 cpm): Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA							
Relinquished by/Company: (Signature)				Received by/Company: (Signature)			
Yumilky D. Jove/AECOM				ADD PACE HUL			
Date/Time: 3/16/2021				Date/Time:			
Relinquished by/Company: (Signature)				Received by/Company: (Signature)			
Date/Time:				Date/Time:			
Relinquished by/Company: (Signature)				Received by/Company: (Signature)			
Date/Time:				Date/Time:			

March 18, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527336

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

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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

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527336001	MW-60	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527336002	MW-73	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527336003	Trip Blank	SM 6200B	SAS	63	PASI-C

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

Sample: MW-60	Lab ID: 92527336001	Collected: 03/11/21 14:52	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 23:30		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 23:30		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 23:30		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 23:30		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	106	%	70-130	1		03/15/21 23:30	460-00-4	
4-Bromofluorobenzene (PID) (S)	103	%	70-130	1		03/15/21 23:30	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>15.0</b>	ug/L	5.0	1	03/17/21 01:53	03/17/21 21:27	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/17/21 03:54	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/17/21 03:54	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/17/21 03:54	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/17/21 03:54	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/17/21 03:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/17/21 03:54	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:54	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:54	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:54	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/17/21 03:54	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/17/21 03:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/21 03:54	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/17/21 03:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/21 03:54	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 03:54	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 03:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/17/21 03:54	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/17/21 03:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/17/21 03:54	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/17/21 03:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/17/21 03:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/17/21 03:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/17/21 03:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:54	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

Sample: MW-60	Lab ID: 92527336001	Collected: 03/11/21 14:52	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:54	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/17/21 03:54	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/17/21 03:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/17/21 03:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/17/21 03:54	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/17/21 03:54	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/17/21 03:54	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/17/21 03:54	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/17/21 03:54	103-65-1	
Styrene	ND	ug/L	0.50	1		03/17/21 03:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 03:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 03:54	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/17/21 03:54	127-18-4	
Toluene	<b>4.4</b>	ug/L	0.50	1		03/17/21 03:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 03:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 03:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/17/21 03:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/17/21 03:54	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/17/21 03:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/21 03:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/17/21 03:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 03:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 03:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/21 03:54	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/17/21 03:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/17/21 03:54	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/17/21 03:54	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/17/21 03:54	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/17/21 03:54	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527336

Sample: MW-73	Lab ID: 92527336002	Collected: 03/11/21 15:55	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 23:58		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 23:58		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 23:58		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 23:58		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	103	%	70-130	1		03/15/21 23:58	460-00-4	
4-Bromofluorobenzene (PID) (S)	101	%	70-130	1		03/15/21 23:58	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 01:53	03/17/21 21:31	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/15/21 15:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/15/21 15:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/15/21 15:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/15/21 15:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/15/21 15:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/15/21 15:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/15/21 15:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/15/21 15:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/15/21 15:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/15/21 15:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/15/21 15:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/15/21 15:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/15/21 15:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/15/21 15:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/15/21 15:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/15/21 15:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/15/21 15:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/15/21 15:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/15/21 15:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/15/21 15:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 15:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 15:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 15:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/15/21 15:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/15/21 15:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/15/21 15:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/15/21 15:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/15/21 15:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/15/21 15:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/15/21 15:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/15/21 15:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/15/21 15:05	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

Sample: MW-73	Lab ID: 92527336002	Collected: 03/11/21 15:55	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/15/21 15:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/15/21 15:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/15/21 15:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/15/21 15:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/15/21 15:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/15/21 15:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/15/21 15:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/15/21 15:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/15/21 15:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/15/21 15:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/15/21 15:05	103-65-1	
Styrene	ND	ug/L	0.50	1		03/15/21 15:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/15/21 15:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/15/21 15:05	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/15/21 15:05	127-18-4	
Toluene	ND	ug/L	0.50	1		03/15/21 15:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/15/21 15:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/15/21 15:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/15/21 15:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/15/21 15:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/15/21 15:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/15/21 15:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/15/21 15:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/15/21 15:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/15/21 15:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/15/21 15:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/15/21 15:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/15/21 15:05	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/15/21 15:05	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		03/15/21 15:05	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/15/21 15:05	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527336

Sample: Trip Blank	Lab ID: 92527336003	Collected: 03/11/21 00:00	Received: 03/11/21 17:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/15/21 13:35	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/15/21 13:35	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/15/21 13:35	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/15/21 13:35	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/15/21 13:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/15/21 13:35	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/15/21 13:35	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/15/21 13:35	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/15/21 13:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/15/21 13:35	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/15/21 13:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/15/21 13:35	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/15/21 13:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/15/21 13:35	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/15/21 13:35	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/15/21 13:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/15/21 13:35	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/15/21 13:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/15/21 13:35	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/15/21 13:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 13:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 13:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/15/21 13:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/15/21 13:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/15/21 13:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/15/21 13:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/15/21 13:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/15/21 13:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/15/21 13:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/15/21 13:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/15/21 13:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/15/21 13:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/15/21 13:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/15/21 13:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/15/21 13:35	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/15/21 13:35	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/15/21 13:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/15/21 13:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/15/21 13:35	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/15/21 13:35	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/15/21 13:35	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/15/21 13:35	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/15/21 13:35	103-65-1	
Styrene	ND	ug/L	0.50	1		03/15/21 13:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/15/21 13:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/15/21 13:35	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

Sample: Trip Blank		Lab ID: 92527336003	Collected: 03/11/21 00:00	Received: 03/11/21 17:42	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/15/21 13:35	127-18-4	
Toluene	ND	ug/L	0.50	1		03/15/21 13:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/15/21 13:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/15/21 13:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/15/21 13:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/15/21 13:35	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/15/21 13:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/15/21 13:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/15/21 13:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/15/21 13:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/15/21 13:35	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/15/21 13:35	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/15/21 13:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/15/21 13:35	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/15/21 13:35	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/15/21 13:35	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/15/21 13:35	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

QC Batch: 606584	Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH	Analysis Description: VPH NC Water
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527336001, 92527336002

METHOD BLANK: 3195792 Matrix: Water

Associated Lab Samples: 92527336001, 92527336002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/15/21 13:58	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/15/21 13:58	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/15/21 13:58	N2
4-Bromofluorobenzene (FID) (S)	%	104	70-130	03/15/21 13:58	
4-Bromofluorobenzene (PID) (S)	%	101	70-130	03/15/21 13:58	

LABORATORY CONTROL SAMPLE & LCSD: 3195793

3195794

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	338	333	113	111	70-130	1	25	N2
Aliphatic (C09-C12)	ug/L	300	331	319	110	106	70-130	4	25	N2
Aromatic (C09-C10)	ug/L	100	99.4	95.8	99	96	70-130	4	25	N2
4-Bromofluorobenzene (FID) (S)	%				103	101	70-130			
4-Bromofluorobenzene (PID) (S)	%				99	98	70-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527336

QC Batch: 607049      Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A      Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92527336001, 92527336002

METHOD BLANK: 3198343      Matrix: Water  
Associated Lab Samples: 92527336001, 92527336002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/17/21 20:55	

LABORATORY CONTROL SAMPLE: 3198344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198345      3198346

Parameter	Units	92527327015		3198346		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	477	493	95	98	75-125	3

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527336

QC Batch: 606550      Analysis Method: SM 6200B  
QC Batch Method: SM 6200B      Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527336002, 92527336003

METHOD BLANK: 3195550      Matrix: Water

Associated Lab Samples: 92527336002, 92527336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,1-Dichloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,1-Dichloroethene	ug/L	ND	0.50	03/15/21 12:59	
1,1-Dichloropropene	ug/L	ND	0.50	03/15/21 12:59	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/15/21 12:59	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/15/21 12:59	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/15/21 12:59	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/15/21 12:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/15/21 12:59	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/15/21 12:59	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/15/21 12:59	
1,2-Dichloroethane	ug/L	ND	0.50	03/15/21 12:59	
1,2-Dichloropropane	ug/L	ND	0.50	03/15/21 12:59	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/15/21 12:59	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/15/21 12:59	
1,3-Dichloropropane	ug/L	ND	0.50	03/15/21 12:59	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/15/21 12:59	
2,2-Dichloropropane	ug/L	ND	0.50	03/15/21 12:59	
2-Chlorotoluene	ug/L	ND	0.50	03/15/21 12:59	
4-Chlorotoluene	ug/L	ND	0.50	03/15/21 12:59	
Benzene	ug/L	ND	0.50	03/15/21 12:59	
Bromobenzene	ug/L	ND	0.50	03/15/21 12:59	
Bromochloromethane	ug/L	ND	0.50	03/15/21 12:59	
Bromodichloromethane	ug/L	ND	0.50	03/15/21 12:59	
Bromoform	ug/L	ND	0.50	03/15/21 12:59	
Bromomethane	ug/L	ND	5.0	03/15/21 12:59	
Carbon tetrachloride	ug/L	ND	0.50	03/15/21 12:59	
Chlorobenzene	ug/L	ND	0.50	03/15/21 12:59	
Chloroethane	ug/L	ND	1.0	03/15/21 12:59	
Chloroform	ug/L	ND	0.50	03/15/21 12:59	
Chloromethane	ug/L	ND	1.0	03/15/21 12:59	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/15/21 12:59	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/15/21 12:59	
Dibromochloromethane	ug/L	ND	0.50	03/15/21 12:59	
Dibromomethane	ug/L	ND	0.50	03/15/21 12:59	
Dichlorodifluoromethane	ug/L	ND	0.50	03/15/21 12:59	
Diisopropyl ether	ug/L	ND	0.50	03/15/21 12:59	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

METHOD BLANK: 3195550

Matrix: Water

Associated Lab Samples: 92527336002, 92527336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/15/21 12:59	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/15/21 12:59	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/15/21 12:59	
m&p-Xylene	ug/L	ND	1.0	03/15/21 12:59	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/15/21 12:59	
Methylene Chloride	ug/L	ND	2.0	03/15/21 12:59	
n-Butylbenzene	ug/L	ND	0.50	03/15/21 12:59	
n-Propylbenzene	ug/L	ND	0.50	03/15/21 12:59	
Naphthalene	ug/L	ND	2.0	03/15/21 12:59	
o-Xylene	ug/L	ND	0.50	03/15/21 12:59	
sec-Butylbenzene	ug/L	ND	0.50	03/15/21 12:59	
Styrene	ug/L	ND	0.50	03/15/21 12:59	
tert-Butylbenzene	ug/L	ND	0.50	03/15/21 12:59	
Tetrachloroethene	ug/L	ND	0.50	03/15/21 12:59	
Toluene	ug/L	ND	0.50	03/15/21 12:59	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/15/21 12:59	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/15/21 12:59	
Trichloroethene	ug/L	ND	0.50	03/15/21 12:59	
Trichlorofluoromethane	ug/L	ND	1.0	03/15/21 12:59	
Vinyl chloride	ug/L	ND	1.0	03/15/21 12:59	
1,2-Dichloroethane-d4 (S)	%	104	70-130	03/15/21 12:59	
4-Bromofluorobenzene (S)	%	98	70-130	03/15/21 12:59	
Toluene-d8 (S)	%	102	70-130	03/15/21 12:59	

LABORATORY CONTROL SAMPLE: 3195551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.3	105	60-140	
1,1,1-Trichloroethane	ug/L	50	51.7	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	60-140	
1,1,2-Trichloroethane	ug/L	50	49.6	99	60-140	
1,1-Dichloroethane	ug/L	50	51.1	102	60-140	
1,1-Dichloroethene	ug/L	50	53.6	107	60-140	
1,1-Dichloropropene	ug/L	50	50.3	101	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.0	92	60-140	
1,2,3-Trichloropropane	ug/L	50	49.4	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.3	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.0	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.9	104	60-140	
1,2-Dichlorobenzene	ug/L	50	49.1	98	60-140	
1,2-Dichloroethane	ug/L	50	47.1	94	60-140	
1,2-Dichloropropane	ug/L	50	53.7	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.6	95	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

LABORATORY CONTROL SAMPLE: 3195551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.8	100	60-140	
1,3-Dichloropropane	ug/L	50	51.0	102	60-140	
1,4-Dichlorobenzene	ug/L	50	47.6	95	60-140	
2,2-Dichloropropane	ug/L	50	52.5	105	60-140	
2-Chlorotoluene	ug/L	50	50.3	101	60-140	
4-Chlorotoluene	ug/L	50	48.9	98	60-140	
Benzene	ug/L	50	51.6	103	60-140	
Bromobenzene	ug/L	50	49.6	99	60-140	
Bromochloromethane	ug/L	50	51.0	102	60-140	
Bromodichloromethane	ug/L	50	49.5	99	60-140	
Bromoform	ug/L	50	46.9	94	60-140	
Bromomethane	ug/L	50	63.0	126	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	52.7	105	60-140	
Chloroethane	ug/L	50	45.9	92	60-140	
Chloroform	ug/L	50	50.4	101	60-140	
Chloromethane	ug/L	50	44.2	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.7	97	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	49.5	99	60-140	
Dichlorodifluoromethane	ug/L	50	49.8	100	60-140	
Diisopropyl ether	ug/L	50	48.2	96	60-140	
Ethylbenzene	ug/L	50	51.1	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.1	104	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.9	104	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	49.5	99	60-140	
Methylene Chloride	ug/L	50	47.7	95	60-140	
n-Butylbenzene	ug/L	50	49.0	98	60-140	
n-Propylbenzene	ug/L	50	49.0	98	60-140	
Naphthalene	ug/L	50	49.4	99	60-140	
o-Xylene	ug/L	50	51.1	102	60-140	
sec-Butylbenzene	ug/L	50	48.1	96	60-140	
Styrene	ug/L	50	53.2	106	60-140	
tert-Butylbenzene	ug/L	50	42.0	84	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.8	106	60-140	
Trichloroethene	ug/L	50	52.8	106	60-140	
Trichlorofluoromethane	ug/L	50	49.0	98	60-140	
Vinyl chloride	ug/L	50	46.3	93	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527336

Parameter	92527177003		MS	MSD	3195552		3195553		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	443	460	111	115	60-140	4			
1,1,1-Trichloroethane	ug/L	ND	400	400	450	459	113	115	60-140	2			
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	426	428	106	107	60-140	0			
1,1,2-Trichloroethane	ug/L	ND	400	400	421	449	105	112	60-140	7			
1,1-Dichloroethane	ug/L	ND	400	400	442	445	111	111	60-140	1			
1,1-Dichloroethene	ug/L	ND	400	400	477	488	119	122	60-140	2			
1,1-Dichloropropene	ug/L	ND	400	400	438	451	109	113	60-140	3			
1,2,3-Trichlorobenzene	ug/L	ND	400	400	328	345	82	86	60-140	5			
1,2,3-Trichloropropane	ug/L	ND	400	400	405	419	101	105	60-140	3			
1,2,4-Trichlorobenzene	ug/L	ND	400	400	341	368	85	92	60-140	8			
1,2,4-Trimethylbenzene	ug/L	784	400	400	1160	1190	93	101	60-140	3			
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	402	437	101	109	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	429	445	107	111	60-140	4			
1,2-Dichlorobenzene	ug/L	ND	400	400	393	402	98	101	60-140	2			
1,2-Dichloroethane	ug/L	ND	400	400	420	433	105	108	60-140	3			
1,2-Dichloropropane	ug/L	ND	400	400	453	480	113	120	60-140	6			
1,3,5-Trimethylbenzene	ug/L	ND	400	400	407	426	102	106	60-140	5			
1,3-Dichlorobenzene	ug/L	ND	400	400	382	401	96	100	60-140	5			
1,3-Dichloropropane	ug/L	ND	400	400	423	439	106	110	60-140	4			
1,4-Dichlorobenzene	ug/L	ND	400	400	371	388	93	97	60-140	5			
2,2-Dichloropropane	ug/L	ND	400	400	402	404	101	101	60-140	0			
2-Chlorotoluene	ug/L	ND	400	400	413	427	103	107	60-140	3			
4-Chlorotoluene	ug/L	ND	400	400	387	404	97	101	60-140	4			
Benzene	ug/L	2310	400	400	2700	2760	99	113	60-140	2			
Bromobenzene	ug/L	ND	400	400	414	423	103	106	60-140	2			
Bromochloromethane	ug/L	ND	400	400	423	441	106	110	60-140	4			
Bromodichloromethane	ug/L	ND	400	400	419	423	105	106	60-140	1			
Bromoform	ug/L	ND	400	400	379	392	95	98	60-140	3			
Bromomethane	ug/L	ND	400	400	512	507	128	127	60-140	1			
Carbon tetrachloride	ug/L	ND	400	400	459	468	115	117	60-140	2			
Chlorobenzene	ug/L	ND	400	400	442	452	110	113	60-140	2			
Chloroethane	ug/L	ND	400	400	408	426	102	106	60-140	4			
Chloroform	ug/L	ND	400	400	434	425	108	106	60-140	2			
Chloromethane	ug/L	ND	400	400	351	379	88	95	60-140	7			
cis-1,2-Dichloroethene	ug/L	ND	400	400	423	420	106	105	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	400	400	438	457	109	114	60-140	4			
Dibromochloromethane	ug/L	ND	400	400	446	443	112	111	60-140	1			
Dibromomethane	ug/L	ND	400	400	447	455	112	114	60-140	2			
Dichlorodifluoromethane	ug/L	ND	400	400	388	380	97	95	60-140	2			
Diisopropyl ether	ug/L	ND	400	400	422	416	105	104	60-140	1			
Ethylbenzene	ug/L	1020	400	400	1440	1460	107	111	60-140	1			
Hexachloro-1,3-butadiene	ug/L	ND	400	400	402	429	101	107	60-140	6			
Isopropylbenzene (Cumene)	ug/L	36.5	400	400	463	477	107	110	60-140	3			
m&p-Xylene	ug/L	142	800	800	997	1050	107	113	60-140	5			
Methyl-tert-butyl ether	ug/L	ND	400	400	419	420	105	105	60-140	0			
Methylene Chloride	ug/L	ND	400	400	418	422	105	106	60-140	1			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527336

Parameter	92527177003		MS		MSD		3195552		3195553		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
n-Butylbenzene	ug/L	ND	400	400	400	400	385	401	96	100	60-140	4		
n-Propylbenzene	ug/L	104	400	400	400	400	494	511	98	102	60-140	3		
Naphthalene	ug/L	307	400	400	400	400	584	637	69	82	60-140	9		
o-Xylene	ug/L	42.0	400	400	400	400	465	483	106	110	60-140	4		
sec-Butylbenzene	ug/L	ND	400	400	400	400	404	420	101	105	60-140	4		
Styrene	ug/L	ND	400	400	400	400	429	442	107	111	60-140	3		
tert-Butylbenzene	ug/L	ND	400	400	400	400	357	364	89	91	60-140	2		
Tetrachloroethene	ug/L	ND	400	400	400	400	416	426	104	106	60-140	2		
Toluene	ug/L	40.0	400	400	400	400	472	496	108	114	60-140	5		
trans-1,2-Dichloroethene	ug/L	ND	400	400	400	400	436	449	109	112	60-140	3		
trans-1,3-Dichloropropene	ug/L	ND	400	400	400	400	424	439	106	110	60-140	3		
Trichloroethene	ug/L	ND	400	400	400	400	451	470	113	118	60-140	4		
Trichlorofluoromethane	ug/L	ND	400	400	400	400	448	451	112	113	60-140	1		
Vinyl chloride	ug/L	ND	400	400	400	400	404	396	101	99	60-140	2		
1,2-Dichloroethane-d4 (S)	%								103	102	70-130			
4-Bromofluorobenzene (S)	%								98	98	70-130			
Toluene-d8 (S)	%								99	99	70-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527336

QC Batch: 606968	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527336001

METHOD BLANK: 3197877 Matrix: Water

Associated Lab Samples: 92527336001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1-Dichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1-Dichloroethene	ug/L	ND	0.50	03/17/21 00:38	
1,1-Dichloropropene	ug/L	ND	0.50	03/17/21 00:38	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/17/21 00:38	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/17/21 00:38	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/17/21 00:38	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/17/21 00:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dichloropropane	ug/L	ND	0.50	03/17/21 00:38	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/17/21 00:38	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
1,3-Dichloropropane	ug/L	ND	0.50	03/17/21 00:38	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
2,2-Dichloropropane	ug/L	ND	0.50	03/17/21 00:38	
2-Chlorotoluene	ug/L	ND	0.50	03/17/21 00:38	
4-Chlorotoluene	ug/L	ND	0.50	03/17/21 00:38	
Benzene	ug/L	ND	0.50	03/17/21 00:38	
Bromobenzene	ug/L	ND	0.50	03/17/21 00:38	
Bromochloromethane	ug/L	ND	0.50	03/17/21 00:38	
Bromodichloromethane	ug/L	ND	0.50	03/17/21 00:38	
Bromoform	ug/L	ND	0.50	03/17/21 00:38	
Bromomethane	ug/L	ND	5.0	03/17/21 00:38	
Carbon tetrachloride	ug/L	ND	0.50	03/17/21 00:38	
Chlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
Chloroethane	ug/L	ND	1.0	03/17/21 00:38	
Chloroform	ug/L	ND	0.50	03/17/21 00:38	
Chloromethane	ug/L	ND	1.0	03/17/21 00:38	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/17/21 00:38	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/17/21 00:38	
Dibromochloromethane	ug/L	ND	0.50	03/17/21 00:38	
Dibromomethane	ug/L	ND	0.50	03/17/21 00:38	
Dichlorodifluoromethane	ug/L	ND	0.50	03/17/21 00:38	
Diisopropyl ether	ug/L	ND	0.50	03/17/21 00:38	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

METHOD BLANK: 3197877

Matrix: Water

Associated Lab Samples: 92527336001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/17/21 00:38	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/17/21 00:38	
m&p-Xylene	ug/L	ND	1.0	03/17/21 00:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/17/21 00:38	
Methylene Chloride	ug/L	ND	2.0	03/17/21 00:38	
n-Butylbenzene	ug/L	ND	0.50	03/17/21 00:38	
n-Propylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Naphthalene	ug/L	ND	2.0	03/17/21 00:38	
o-Xylene	ug/L	ND	0.50	03/17/21 00:38	
sec-Butylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Styrene	ug/L	ND	0.50	03/17/21 00:38	
tert-Butylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Tetrachloroethene	ug/L	ND	0.50	03/17/21 00:38	
Toluene	ug/L	ND	0.50	03/17/21 00:38	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/17/21 00:38	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/17/21 00:38	
Trichloroethene	ug/L	ND	0.50	03/17/21 00:38	
Trichlorofluoromethane	ug/L	ND	1.0	03/17/21 00:38	
Vinyl chloride	ug/L	ND	1.0	03/17/21 00:38	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/17/21 00:38	
4-Bromofluorobenzene (S)	%	102	70-130	03/17/21 00:38	
Toluene-d8 (S)	%	100	70-130	03/17/21 00:38	

LABORATORY CONTROL SAMPLE: 3197878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.8	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.3	107	60-140	
1,1,2-Trichloroethane	ug/L	50	53.9	108	60-140	
1,1-Dichloroethane	ug/L	50	49.1	98	60-140	
1,1-Dichloroethene	ug/L	50	50.9	102	60-140	
1,1-Dichloropropene	ug/L	50	50.7	101	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.4	105	60-140	
1,2,3-Trichloropropane	ug/L	50	52.0	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.2	100	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.1	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	60-140	
1,2-Dichlorobenzene	ug/L	50	49.8	100	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	49.7	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

LABORATORY CONTROL SAMPLE: 3197878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	52.1	104	60-140	
1,4-Dichlorobenzene	ug/L	50	48.1	96	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	48.9	98	60-140	
4-Chlorotoluene	ug/L	50	48.5	97	60-140	
Benzene	ug/L	50	50.0	100	60-140	
Bromobenzene	ug/L	50	48.1	96	60-140	
Bromochloromethane	ug/L	50	51.9	104	60-140	
Bromodichloromethane	ug/L	50	51.4	103	60-140	
Bromoform	ug/L	50	45.1	90	60-140	
Bromomethane	ug/L	50	44.5	89	60-140	
Carbon tetrachloride	ug/L	50	52.5	105	60-140	
Chlorobenzene	ug/L	50	50.2	100	60-140	
Chloroethane	ug/L	50	43.4	87	60-140	
Chloroform	ug/L	50	49.5	99	60-140	
Chloromethane	ug/L	50	37.9	76	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.7	93	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.9	110	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	53.2	106	60-140	
Dichlorodifluoromethane	ug/L	50	42.4	85	60-140	
Diisopropyl ether	ug/L	50	46.7	93	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.9	106	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.8	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	51.0	102	60-140	
Methylene Chloride	ug/L	50	44.4	89	60-140	
n-Butylbenzene	ug/L	50	54.1	108	60-140	
n-Propylbenzene	ug/L	50	48.1	96	60-140	
Naphthalene	ug/L	50	50.9	102	60-140	
o-Xylene	ug/L	50	51.4	103	60-140	
sec-Butylbenzene	ug/L	50	49.9	100	60-140	
Styrene	ug/L	50	50.7	101	60-140	
tert-Butylbenzene	ug/L	50	40.6	81	60-140	
Tetrachloroethene	ug/L	50	51.2	102	60-140	
Toluene	ug/L	50	49.9	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.2	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	60-140	
Trichloroethene	ug/L	50	50.4	101	60-140	
Trichlorofluoromethane	ug/L	50	45.1	90	60-140	
Vinyl chloride	ug/L	50	42.0	84	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

Parameter	92527425002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	100	100	115	111	115	111	60-140	3				
1,1,1-Trichloroethane	ug/L	ND	100	100	113	106	113	106	60-140	6				
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	115	117	115	117	60-140	1				
1,1,2-Trichloroethane	ug/L	ND	100	100	116	119	116	119	60-140	2				
1,1-Dichloroethane	ug/L	ND	100	100	112	108	112	108	60-140	4				
1,1-Dichloroethene	ug/L	ND	100	100	120	110	120	110	60-140	9				
1,1-Dichloropropene	ug/L	ND	100	100	116	109	116	109	60-140	7				
1,2,3-Trichlorobenzene	ug/L	ND	100	100	102	106	102	106	60-140	4				
1,2,3-Trichloropropane	ug/L	ND	100	100	116	118	116	118	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	100	100	116	115	116	115	60-140	1				
1,2,4-Trimethylbenzene	ug/L	234	100	100	367	348	133	114	60-140	5				
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	106	109	106	109	60-140	2				
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	120	119	120	119	60-140	0				
1,2-Dichlorobenzene	ug/L	ND	100	100	112	103	112	103	60-140	8				
1,2-Dichloroethane	ug/L	ND	100	100	112	110	112	110	60-140	2				
1,2-Dichloropropane	ug/L	ND	100	100	113	113	113	113	60-140	0				
1,3,5-Trimethylbenzene	ug/L	ND	100	100	159	153	159	153	60-140	4	M1			
1,3-Dichlorobenzene	ug/L	ND	100	100	111	107	111	107	60-140	4				
1,3-Dichloropropane	ug/L	ND	100	100	116	116	116	116	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	100	100	109	103	109	103	60-140	5				
2,2-Dichloropropane	ug/L	ND	100	100	94.0	87.0	94	87	60-140	8				
2-Chlorotoluene	ug/L	ND	100	100	121	116	121	116	60-140	4				
4-Chlorotoluene	ug/L	ND	100	100	111	105	111	105	60-140	5				
Benzene	ug/L	180	100	100	302	291	122	111	60-140	4				
Bromobenzene	ug/L	ND	100	100	106	105	106	105	60-140	2				
Bromochloromethane	ug/L	ND	100	100	115	113	115	113	60-140	1				
Bromodichloromethane	ug/L	ND	100	100	113	111	113	111	60-140	2				
Bromoform	ug/L	ND	100	100	94.4	95.6	94	96	60-140	1				
Bromomethane	ug/L	ND	100	100	109	95.5	109	95	60-140	14				
Carbon tetrachloride	ug/L	ND	100	100	123	114	123	114	60-140	7				
Chlorobenzene	ug/L	ND	100	100	118	115	118	115	60-140	2				
Chloroethane	ug/L	ND	100	100	116	109	116	109	60-140	6				
Chloroform	ug/L	ND	100	100	112	106	112	106	60-140	6				
Chloromethane	ug/L	ND	100	100	80.7	80.0	81	80	60-140	1				
cis-1,2-Dichloroethene	ug/L	ND	100	100	107	104	107	104	60-140	3				
cis-1,3-Dichloropropene	ug/L	ND	100	100	111	108	111	108	60-140	3				
Dibromochloromethane	ug/L	ND	100	100	116	117	116	117	60-140	1				
Dibromomethane	ug/L	ND	100	100	113	115	113	115	60-140	2				
Dichlorodifluoromethane	ug/L	ND	100	100	93.8	89.0	94	89	60-140	5				
Diisopropyl ether	ug/L	ND	100	100	101	101	101	101	60-140	1				
Ethylbenzene	ug/L	853	100	100	1010	977	157	124	60-140	3	E			
Hexachloro-1,3-butadiene	ug/L	ND	100	100	109	109	109	109	60-140	0				
Isopropylbenzene (Cumene)	ug/L	76.6	100	100	199	193	123	117	60-140	3				
m&p-Xylene	ug/L	541	200	200	794	773	126	116	60-140	3				
Methyl-tert-butyl ether	ug/L	ND	100	100	105	103	105	103	60-140	2				
Methylene Chloride	ug/L	ND	100	100	104	101	104	101	60-140	3				

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527336

Parameter	92527425002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	100	100	133	135	133	135	60-140	1				
n-Propylbenzene	ug/L	193	100	100	316	300	123	107	60-140	5				
Naphthalene	ug/L	280	100	100	396	397	116	116	60-140	0				
o-Xylene	ug/L	60.8	100	100	174	169	113	109	60-140	3				
sec-Butylbenzene	ug/L	ND	100	100	123	120	123	120	60-140	2				
Styrene	ug/L	ND	100	100	114	111	114	111	60-140	3				
tert-Butylbenzene	ug/L	ND	100	100	94.5	90.0	94	90	60-140	5				
Tetrachloroethene	ug/L	ND	100	100	115	115	115	115	60-140	0				
Toluene	ug/L	70.7	100	100	187	178	116	108	60-140	5				
trans-1,2-Dichloroethene	ug/L	ND	100	100	109	104	109	104	60-140	5				
trans-1,3-Dichloropropene	ug/L	ND	100	100	105	105	105	105	60-140	1				
Trichloroethene	ug/L	ND	100	100	116	114	116	114	60-140	2				
Trichlorofluoromethane	ug/L	ND	100	100	110	103	110	103	60-140	6				
Vinyl chloride	ug/L	ND	100	100	96.6	92.4	97	92	60-140	4				
1,2-Dichloroethane-d4 (S)	%						99	94	70-130					
4-Bromofluorobenzene (S)	%						99	101	70-130					
Toluene-d8 (S)	%						98	99	70-130					

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: Colonial Pipeline (3/11/21)

Pace Project No.: 92527336

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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.

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Colonial Pipeline (3/11/21)  
Pace Project No.: 92527336

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527336001	MW-60	MADEP VPH	606584		
92527336002	MW-73	MADEP VPH	606584		
92527336001	MW-60	EPA 3010A	607049	EPA 6010D	607079
92527336002	MW-73	EPA 3010A	607049	EPA 6010D	607079
92527336001	MW-60	SM 6200B	606968		
92527336002	MW-73	SM 6200B	606550		
92527336003	Trip Blank	SM 6200B	606550		

**REPORT OF LABORATORY ANALYSIS**

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# CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - Affix this document to main label here or List Pace Workorder Number or

**WO# : 92527336**



ALL S

Container Preservation  
3 3 1

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: **AECOM**  
Address: **6000 Fairview Rd #100**  
Report To: **Andrew Wreschnig**  
Copy To: **aecom.com**

Email To:  
Site Collection Info/Address:

Customer Project Name/Number: **CPC Huntersville**  
Phone: **704-522-0330**  
Email: **704-522-0330**  
Collected By (print):  
Collected By (signature):  
Purchase Order #: **281013**  
Quote #: **3004**  
Turnaround Date Required:  
Rush: **3 Day**  
Sample Disposal: **3 Day**  
Disposition: **Return**

County/City: **NC**  
Time Zone Collected: **ET**  
Compliance Monitoring?  
DW PWS ID #:  
DW Location Code:  
Immediately Packed on Ice:  
Field Filtered (if applicable):  
Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End	Res Cl	# of Ctns
			Date	Time			
MW-60	WT	G	3/11/21	1452		B	8
MW-73	I	I	3/11/21	1555		I	1
Triq Blank							

Customer Remarks / Special Conditions / Possible Hazards:  
Type of Ice Used: **Wet** Blue Dry None  
Packing Material Used: **Bubble bags**  
Radchem sample(s) screened (<500 cpm): **Y N NA**

Relinquished by/Company: (Signature) **Wendy D. Jone/AECOM** Date/Time: **3/11/2021**  
Relinquished by/Company: (Signature) **Wendy D. Jone/AECOM** Date/Time: **3/11/2021**  
Relinquished by/Company: (Signature) **Wendy D. Jone/AECOM** Date/Time: **3/11/2021**

Lab Profile/Line:  
Lab Sample Receipt Checklist:  
Custody Seals Present/Intact: **Y N NA**  
Custody Signatures Present: **Y N NA**  
Collector Signature Present: **Y N NA**  
Bottles Intact: **Y N NA**  
Correct Bottles: **Y N NA**  
Sufficient Volume: **Y N NA**  
Samples Received on Ice: **Y N NA**  
VOA - Headspace Acceptable: **Y N NA**  
USDA Regulated Soils: **Y N NA**  
Samples in Holding Time: **Y N NA**  
Residual Chlorine Present: **Y N NA**  
Cl Strips: **Y N NA**  
Sample pH Acceptable: **Y N NA**  
pH Strips: **2238194V**  
Sulfide Present: **Y N NA**  
Lead Acetate Strips: **Y N NA**

LAB USE ONLY:  
Lab Sample # / Comments:  
**92527336**  
**001**  
**002**  
**003**

Lab Sample Temperature Info:  
Temp Blank Received: **Y N NA**  
Therm ID#: **921064**  
Cooler 1 Temp Upon Receipt: **04.0C**  
Cooler 1 Therm Corr. Factor: **0.0C**  
Cooler 1 Corrected Temp: **04.0C**  
Comments:

Temp Blank Received: **Y N NA**  
HCL MeOH TSP Other  
Non Conformance(s): **YES / NO**  
Page: **1** of: **1**

Customer Remarks / Special Conditions / Possible Hazards	Type of Ice Used	Blue	Dry	None
	<b>Wet</b>			

Customer Remarks / Special Conditions / Possible Hazards	Lab Tracking #	Short Holds Present (<72 hours)	Y	N	N/A
	<b>2618814</b>				

Samples received via:	FEDEX	UPS	Client	Courier	Pace Courier

Date/Time:	Table #:	Acctnum:	Template:	Prelogin:	PM:	PB:
<b>3/11/21 1742</b>						

March 19, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

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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

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 ANALYTE COUNT

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527474001	MW-08	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474002	MW-13	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474003	MW-14	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474004	MW-44	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474005	MW-45	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474006	MW-46	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474007	MW-49	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474008	MW-50	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474009	MW-51	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474010	MW-62	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474011	MW-76	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474012	DUP-1-20210312	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527474013	Trip Blank	SM 6200B	SAS	63	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527474014	Trip Blank	SM 6200B	SAS	63	PASI-C

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PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

Sample: MW-08	Lab ID: 92527474001	Collected: 03/12/21 10:20	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 15:52		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 15:52		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 15:52		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 15:52		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	104	%	70-130	1		03/15/21 15:52	460-00-4	
4-Bromofluorobenzene (PID) (S)	101	%	70-130	1		03/15/21 15:52	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 01:53	03/17/21 21:37	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/16/21 15:44	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/16/21 15:44	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/16/21 15:44	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/16/21 15:44	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/16/21 15:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/21 15:44	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/16/21 15:44	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/16/21 15:44	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/16/21 15:44	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/16/21 15:44	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/16/21 15:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/21 15:44	75-00-3	
Chloroform	<b>0.87</b>	ug/L	0.50	1		03/16/21 15:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/21 15:44	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 15:44	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 15:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/16/21 15:44	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/16/21 15:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/16/21 15:44	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/16/21 15:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 15:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 15:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 15:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/16/21 15:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/16/21 15:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/16/21 15:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/16/21 15:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 15:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 15:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 15:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/16/21 15:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 15:44	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-08	Lab ID: 92527474001	Collected: 03/12/21 10:20	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/16/21 15:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 15:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 15:44	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/16/21 15:44	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/16/21 15:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/16/21 15:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/16/21 15:44	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/16/21 15:44	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/16/21 15:44	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/16/21 15:44	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/16/21 15:44	103-65-1	
Styrene	ND	ug/L	0.50	1		03/16/21 15:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 15:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 15:44	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/16/21 15:44	127-18-4	
Toluene	ND	ug/L	0.50	1		03/16/21 15:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 15:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 15:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/16/21 15:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/16/21 15:44	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/16/21 15:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/21 15:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/16/21 15:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 15:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 15:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/21 15:44	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/16/21 15:44	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/16/21 15:44	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/16/21 15:44	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/16/21 15:44	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/16/21 15:44	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-13	Lab ID: 92527474002	Collected: 03/12/21 10:40	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 16:20		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 16:20		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 16:20		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 16:20		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	99	%	70-130	1		03/15/21 16:20	460-00-4	
4-Bromofluorobenzene (PID) (S)	97	%	70-130	1		03/15/21 16:20	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 01:53	03/17/21 21:40	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/17/21 15:56	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/17/21 15:56	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/17/21 15:56	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/17/21 15:56	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/17/21 15:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/17/21 15:56	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/17/21 15:56	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/17/21 15:56	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/17/21 15:56	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/17/21 15:56	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/17/21 15:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/21 15:56	75-00-3	
Chloroform	4.6	ug/L	0.50	1		03/17/21 15:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/21 15:56	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 15:56	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 15:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/17/21 15:56	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/17/21 15:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/17/21 15:56	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/17/21 15:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 15:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 15:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 15:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/17/21 15:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/17/21 15:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/17/21 15:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/17/21 15:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 15:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 15:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 15:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/17/21 15:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 15:56	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-13	Lab ID: 92527474002	Collected: 03/12/21 10:40	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/17/21 15:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 15:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 15:56	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/17/21 15:56	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/17/21 15:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/17/21 15:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/17/21 15:56	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/17/21 15:56	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/17/21 15:56	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/17/21 15:56	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/17/21 15:56	103-65-1	
Styrene	ND	ug/L	0.50	1		03/17/21 15:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 15:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 15:56	79-34-5	
Tetrachloroethene	1.1	ug/L	0.50	1		03/17/21 15:56	127-18-4	
Toluene	0.64	ug/L	0.50	1		03/17/21 15:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 15:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 15:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/17/21 15:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/17/21 15:56	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/17/21 15:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/21 15:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/17/21 15:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 15:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 15:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/21 15:56	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/17/21 15:56	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/17/21 15:56	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/17/21 15:56	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/17/21 15:56	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/17/21 15:56	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

Sample: MW-14	Lab ID: 92527474003	Collected: 03/12/21 08:35	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 16:49		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 16:49		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 16:49		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 16:49		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	100	%	70-130	1		03/15/21 16:49	460-00-4	
4-Bromofluorobenzene (PID) (S)	97	%	70-130	1		03/15/21 16:49	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 01:53	03/17/21 21:44	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/16/21 16:20	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/16/21 16:20	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/16/21 16:20	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/16/21 16:20	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/16/21 16:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/21 16:20	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/16/21 16:20	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/16/21 16:20	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/16/21 16:20	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/16/21 16:20	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/16/21 16:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/21 16:20	75-00-3	
Chloroform	<b>0.57</b>	ug/L	0.50	1		03/16/21 16:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/21 16:20	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 16:20	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 16:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/16/21 16:20	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/16/21 16:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/16/21 16:20	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/16/21 16:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 16:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 16:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 16:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/16/21 16:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/16/21 16:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/16/21 16:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/16/21 16:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 16:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 16:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 16:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/16/21 16:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 16:20	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-14	Lab ID: 92527474003	Collected: 03/12/21 08:35	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/16/21 16:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 16:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 16:20	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/16/21 16:20	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/16/21 16:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/16/21 16:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/16/21 16:20	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/16/21 16:20	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/16/21 16:20	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/16/21 16:20	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/16/21 16:20	103-65-1	
Styrene	ND	ug/L	0.50	1		03/16/21 16:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 16:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 16:20	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/16/21 16:20	127-18-4	
Toluene	ND	ug/L	0.50	1		03/16/21 16:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 16:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 16:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/16/21 16:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/16/21 16:20	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/16/21 16:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/21 16:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/16/21 16:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 16:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 16:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/21 16:20	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/16/21 16:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/16/21 16:20	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/16/21 16:20	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/16/21 16:20	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/16/21 16:20	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

Sample: MW-44	Lab ID: 92527474004	Collected: 03/12/21 11:55	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 17:17		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 17:17		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 17:17		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 17:17		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	103	%	70-130	1		03/15/21 17:17	460-00-4	
4-Bromofluorobenzene (PID) (S)	100	%	70-130	1		03/15/21 17:17	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 01:53	03/17/21 21:47	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/16/21 16:38	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/16/21 16:38	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/16/21 16:38	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/16/21 16:38	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/16/21 16:38	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/21 16:38	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/16/21 16:38	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/16/21 16:38	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/16/21 16:38	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/16/21 16:38	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/16/21 16:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/21 16:38	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/16/21 16:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/21 16:38	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 16:38	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 16:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/16/21 16:38	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/16/21 16:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/16/21 16:38	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/16/21 16:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 16:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 16:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 16:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/16/21 16:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/16/21 16:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/16/21 16:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/16/21 16:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 16:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 16:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 16:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/16/21 16:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 16:38	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-44	Lab ID: 92527474004	Collected: 03/12/21 11:55	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/16/21 16:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 16:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 16:38	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/16/21 16:38	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/16/21 16:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/16/21 16:38	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/16/21 16:38	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/16/21 16:38	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/16/21 16:38	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/16/21 16:38	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/16/21 16:38	103-65-1	
Styrene	ND	ug/L	0.50	1		03/16/21 16:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 16:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 16:38	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/16/21 16:38	127-18-4	
Toluene	ND	ug/L	0.50	1		03/16/21 16:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 16:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 16:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/16/21 16:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/16/21 16:38	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/16/21 16:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/21 16:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/16/21 16:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 16:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 16:38	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/21 16:38	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/16/21 16:38	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/16/21 16:38	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/16/21 16:38	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/16/21 16:38	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/16/21 16:38	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-45	Lab ID: 92527474005	Collected: 03/12/21 10:40	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 17:48		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 17:48		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 17:48		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 17:48		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	92	%	70-130	1		03/15/21 17:48	460-00-4	
4-Bromofluorobenzene (PID) (S)	90	%	70-130	1		03/15/21 17:48	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>6.1</b>	ug/L	5.0	1	03/17/21 01:53	03/17/21 21:50	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/16/21 16:56	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/16/21 16:56	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/16/21 16:56	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/16/21 16:56	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/16/21 16:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/21 16:56	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/16/21 16:56	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/16/21 16:56	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/16/21 16:56	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/16/21 16:56	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/16/21 16:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/21 16:56	75-00-3	
Chloroform	<b>3.3</b>	ug/L	0.50	1		03/16/21 16:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/21 16:56	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 16:56	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 16:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/16/21 16:56	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/16/21 16:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/16/21 16:56	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/16/21 16:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 16:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 16:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 16:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/16/21 16:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/16/21 16:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/16/21 16:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/16/21 16:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 16:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 16:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 16:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/16/21 16:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 16:56	594-20-7	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-45	Lab ID: 92527474005	Collected: 03/12/21 10:40	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/16/21 16:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 16:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 16:56	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/16/21 16:56	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/16/21 16:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/16/21 16:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/16/21 16:56	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/16/21 16:56	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/16/21 16:56	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/16/21 16:56	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/16/21 16:56	103-65-1	
Styrene	ND	ug/L	0.50	1		03/16/21 16:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 16:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 16:56	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/16/21 16:56	127-18-4	
Toluene	ND	ug/L	0.50	1		03/16/21 16:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 16:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 16:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/16/21 16:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/16/21 16:56	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/16/21 16:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/21 16:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/16/21 16:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 16:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 16:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/21 16:56	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/16/21 16:56	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/16/21 16:56	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/16/21 16:56	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/16/21 16:56	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/16/21 16:56	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-46	Lab ID: 92527474006	Collected: 03/12/21 12:30	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 18:17		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 18:17		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 18:17		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 18:17		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	106	%	70-130	1		03/15/21 18:17	460-00-4	
4-Bromofluorobenzene (PID) (S)	102	%	70-130	1		03/15/21 18:17	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 01:53	03/17/21 21:53	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/16/21 17:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/16/21 17:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/16/21 17:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/16/21 17:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/16/21 17:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/21 17:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/16/21 17:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/16/21 17:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/16/21 17:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/16/21 17:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/16/21 17:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/21 17:13	75-00-3	
Chloroform	2.0	ug/L	0.50	1		03/16/21 17:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/21 17:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 17:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 17:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/16/21 17:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/16/21 17:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/16/21 17:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/16/21 17:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 17:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 17:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 17:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/16/21 17:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/16/21 17:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/16/21 17:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/16/21 17:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 17:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 17:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 17:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/16/21 17:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 17:13	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-46	Lab ID: 92527474006	Collected: 03/12/21 12:30	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/16/21 17:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 17:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 17:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/16/21 17:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/16/21 17:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/16/21 17:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/16/21 17:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/16/21 17:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/16/21 17:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/16/21 17:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/16/21 17:13	103-65-1	
Styrene	ND	ug/L	0.50	1		03/16/21 17:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 17:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 17:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/16/21 17:13	127-18-4	
Toluene	ND	ug/L	0.50	1		03/16/21 17:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 17:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 17:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/16/21 17:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/16/21 17:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/16/21 17:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/21 17:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/16/21 17:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 17:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 17:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/21 17:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/16/21 17:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/16/21 17:13	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/16/21 17:13	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/16/21 17:13	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		03/16/21 17:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-49	Lab ID: 92527474007	Collected: 03/12/21 12:15	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 18:45		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 18:45		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 18:45		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 18:45		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	101	%	70-130	1		03/15/21 18:45	460-00-4	
4-Bromofluorobenzene (PID) (S)	98	%	70-130	1		03/15/21 18:45	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>20.2</b>	ug/L	5.0	1	03/17/21 01:53	03/17/21 22:03	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/16/21 17:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/16/21 17:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/16/21 17:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/16/21 17:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/16/21 17:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/21 17:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/16/21 17:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/16/21 17:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/16/21 17:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/16/21 17:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/16/21 17:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/21 17:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/16/21 17:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/21 17:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 17:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 17:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/16/21 17:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/16/21 17:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/16/21 17:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/16/21 17:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 17:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 17:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 17:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/16/21 17:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/16/21 17:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/16/21 17:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/16/21 17:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 17:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 17:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 17:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/16/21 17:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 17:31	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-49	Lab ID: 92527474007	Collected: 03/12/21 12:15	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/16/21 17:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 17:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 17:31	10061-02-6	
Diisopropyl ether	<b>3.4</b>	ug/L	0.50	1		03/16/21 17:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/16/21 17:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/16/21 17:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/16/21 17:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/16/21 17:31	75-09-2	
Methyl-tert-butyl ether	<b>1.5</b>	ug/L	0.50	1		03/16/21 17:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/16/21 17:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/16/21 17:31	103-65-1	
Styrene	ND	ug/L	0.50	1		03/16/21 17:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 17:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 17:31	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/16/21 17:31	127-18-4	
Toluene	ND	ug/L	0.50	1		03/16/21 17:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 17:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 17:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/16/21 17:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/16/21 17:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/16/21 17:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/21 17:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/16/21 17:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 17:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 17:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/21 17:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/16/21 17:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/16/21 17:31	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/16/21 17:31	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/16/21 17:31	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/16/21 17:31	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

Sample: MW-50	Lab ID: 92527474008	Collected: 03/12/21 09:10	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	7570	ug/L	100	2		03/17/21 20:06		N2
Aliphatic (C09-C12)	2460	ug/L	100	2		03/17/21 20:06		N2
Aliphatic(C09-C12) Adjusted	2120	ug/L	100	2		03/17/21 20:06		N2
Aromatic (C09-C10)	339	ug/L	100	2		03/17/21 20:06		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	104	%	70-130	2		03/17/21 20:06	460-00-4	
4-Bromofluorobenzene (PID) (S)	99	%	70-130	2		03/17/21 20:06	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	5.8	ug/L	5.0	1	03/17/21 01:53	03/17/21 22:06	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	844	ug/L	2.5	5		03/17/21 16:31	71-43-2	
Bromobenzene	ND	ug/L	2.5	5		03/17/21 16:31	108-86-1	
Bromochloromethane	ND	ug/L	2.5	5		03/17/21 16:31	74-97-5	
Bromodichloromethane	ND	ug/L	2.5	5		03/17/21 16:31	75-27-4	
Bromoform	ND	ug/L	2.5	5		03/17/21 16:31	75-25-2	
Bromomethane	ND	ug/L	25.0	5		03/17/21 16:31	74-83-9	
n-Butylbenzene	ND	ug/L	2.5	5		03/17/21 16:31	104-51-8	
sec-Butylbenzene	ND	ug/L	2.5	5		03/17/21 16:31	135-98-8	
tert-Butylbenzene	ND	ug/L	2.5	5		03/17/21 16:31	98-06-6	
Carbon tetrachloride	ND	ug/L	2.5	5		03/17/21 16:31	56-23-5	
Chlorobenzene	ND	ug/L	2.5	5		03/17/21 16:31	108-90-7	
Chloroethane	ND	ug/L	5.0	5		03/17/21 16:31	75-00-3	
Chloroform	ND	ug/L	2.5	5		03/17/21 16:31	67-66-3	
Chloromethane	ND	ug/L	5.0	5		03/17/21 16:31	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	5		03/17/21 16:31	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	5		03/17/21 16:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	5		03/17/21 16:31	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	5		03/17/21 16:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	5		03/17/21 16:31	106-93-4	
Dibromomethane	ND	ug/L	2.5	5		03/17/21 16:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	5		03/17/21 16:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	5		03/17/21 16:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	5		03/17/21 16:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	5		03/17/21 16:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.5	5		03/17/21 16:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.5	5		03/17/21 16:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.5	5		03/17/21 16:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	5		03/17/21 16:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	5		03/17/21 16:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	5		03/17/21 16:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	5		03/17/21 16:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	5		03/17/21 16:31	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-50	Lab ID: 92527474008	Collected: 03/12/21 09:10	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	2.5	5		03/17/21 16:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	5		03/17/21 16:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	5		03/17/21 16:31	10061-02-6	
Diisopropyl ether	113	ug/L	2.5	5		03/17/21 16:31	108-20-3	
Ethylbenzene	43.0	ug/L	2.5	5		03/17/21 16:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	5		03/17/21 16:31	87-68-3	
Isopropylbenzene (Cumene)	2.7	ug/L	2.5	5		03/17/21 16:31	98-82-8	
Methylene Chloride	ND	ug/L	10.0	5		03/17/21 16:31	75-09-2	
Methyl-tert-butyl ether	59.6	ug/L	2.5	5		03/17/21 16:31	1634-04-4	
Naphthalene	45.8	ug/L	10.0	5		03/17/21 16:31	91-20-3	
n-Propylbenzene	ND	ug/L	2.5	5		03/17/21 16:31	103-65-1	
Styrene	ND	ug/L	2.5	5		03/17/21 16:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	5		03/17/21 16:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	5		03/17/21 16:31	79-34-5	
Tetrachloroethene	ND	ug/L	2.5	5		03/17/21 16:31	127-18-4	
Toluene	647	ug/L	2.5	5		03/17/21 16:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	5		03/17/21 16:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	5		03/17/21 16:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.5	5		03/17/21 16:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	5		03/17/21 16:31	79-00-5	
Trichloroethene	ND	ug/L	2.5	5		03/17/21 16:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		03/17/21 16:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	5		03/17/21 16:31	96-18-4	
1,2,4-Trimethylbenzene	125	ug/L	2.5	5		03/17/21 16:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.5	5		03/17/21 16:31	108-67-8	
Vinyl chloride	ND	ug/L	5.0	5		03/17/21 16:31	75-01-4	
m&p-Xylene	750	ug/L	5.0	5		03/17/21 16:31	179601-23-1	
o-Xylene	399	ug/L	2.5	5		03/17/21 16:31	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	5		03/17/21 16:31	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	5		03/17/21 16:31	460-00-4	
Toluene-d8 (S)	98	%	70-130	5		03/17/21 16:31	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

Sample: MW-51	Lab ID: 92527474009	Collected: 03/12/21 09:00	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 19:42		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 19:42		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 19:42		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 19:42		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	106	%	70-130	1		03/15/21 19:42	460-00-4	
4-Bromofluorobenzene (PID) (S)	103	%	70-130	1		03/15/21 19:42	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 01:53	03/17/21 22:09	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/16/21 17:49	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/16/21 17:49	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/16/21 17:49	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/16/21 17:49	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/16/21 17:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/21 17:49	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/16/21 17:49	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/16/21 17:49	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/16/21 17:49	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/16/21 17:49	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/16/21 17:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/21 17:49	75-00-3	
Chloroform	2.3	ug/L	0.50	1		03/16/21 17:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/21 17:49	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 17:49	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 17:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/16/21 17:49	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/16/21 17:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/16/21 17:49	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/16/21 17:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 17:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 17:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 17:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/16/21 17:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/16/21 17:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/16/21 17:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/16/21 17:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 17:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 17:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 17:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/16/21 17:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 17:49	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-51	Lab ID: 92527474009	Collected: 03/12/21 09:00	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/16/21 17:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 17:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 17:49	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/16/21 17:49	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/16/21 17:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/16/21 17:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/16/21 17:49	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/16/21 17:49	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/16/21 17:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/16/21 17:49	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/16/21 17:49	103-65-1	
Styrene	ND	ug/L	0.50	1		03/16/21 17:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 17:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 17:49	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/16/21 17:49	127-18-4	
Toluene	ND	ug/L	0.50	1		03/16/21 17:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 17:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 17:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/16/21 17:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/16/21 17:49	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/16/21 17:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/21 17:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/16/21 17:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 17:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 17:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/21 17:49	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/16/21 17:49	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/16/21 17:49	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/16/21 17:49	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/16/21 17:49	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/16/21 17:49	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-62	Lab ID: 92527474010	Collected: 03/12/21 10:56	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 20:11		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 20:11		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 20:11		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 20:11		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	101	%	70-130	1		03/15/21 20:11	460-00-4	
4-Bromofluorobenzene (PID) (S)	99	%	70-130	1		03/15/21 20:11	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>37.8</b>	ug/L	5.0	1	03/17/21 01:53	03/17/21 22:13	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/16/21 18:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/16/21 18:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/16/21 18:07	74-97-5	
Bromodichloromethane	<b>2.1</b>	ug/L	0.50	1		03/16/21 18:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/16/21 18:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/21 18:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/16/21 18:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/16/21 18:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/16/21 18:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/16/21 18:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/16/21 18:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/21 18:07	75-00-3	
Chloroform	<b>8.7</b>	ug/L	0.50	1		03/16/21 18:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/21 18:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 18:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 18:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/16/21 18:07	96-12-8	
Dibromochloromethane	<b>0.57</b>	ug/L	0.50	1		03/16/21 18:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/16/21 18:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/16/21 18:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 18:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 18:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 18:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/16/21 18:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/16/21 18:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/16/21 18:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/16/21 18:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 18:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 18:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 18:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/16/21 18:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 18:07	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-62	Lab ID: 92527474010	Collected: 03/12/21 10:56	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/16/21 18:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 18:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 18:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/16/21 18:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/16/21 18:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/16/21 18:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/16/21 18:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/16/21 18:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/16/21 18:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/16/21 18:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/16/21 18:07	103-65-1	
Styrene	ND	ug/L	0.50	1		03/16/21 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 18:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 18:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/16/21 18:07	127-18-4	
Toluene	ND	ug/L	0.50	1		03/16/21 18:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 18:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 18:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/16/21 18:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/16/21 18:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/16/21 18:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/21 18:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/16/21 18:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 18:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 18:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/21 18:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/16/21 18:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/16/21 18:07	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/16/21 18:07	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/16/21 18:07	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/16/21 18:07	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-76	Lab ID: 92527474011	Collected: 03/12/21 08:56	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 20:39		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 20:39		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 20:39		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 20:39		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	108	%	70-130	1		03/15/21 20:39	460-00-4	
4-Bromofluorobenzene (PID) (S)	105	%	70-130	1		03/15/21 20:39	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>8.9</b>	ug/L	5.0	1	03/17/21 01:53	03/17/21 22:16	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/16/21 14:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/16/21 14:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/16/21 14:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/16/21 14:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/16/21 14:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/21 14:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/16/21 14:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/16/21 14:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/16/21 14:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/16/21 14:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/16/21 14:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/21 14:33	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/16/21 14:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/21 14:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 14:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/16/21 14:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/16/21 14:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/16/21 14:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/16/21 14:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/16/21 14:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 14:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 14:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/16/21 14:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/16/21 14:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/16/21 14:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/16/21 14:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/16/21 14:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 14:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/16/21 14:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 14:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/16/21 14:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/16/21 14:33	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: MW-76	Lab ID: 92527474011	Collected: 03/12/21 08:56	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/16/21 14:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 14:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/16/21 14:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/16/21 14:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/16/21 14:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/16/21 14:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/16/21 14:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/16/21 14:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/16/21 14:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/16/21 14:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/16/21 14:33	103-65-1	
Styrene	ND	ug/L	0.50	1		03/16/21 14:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 14:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/16/21 14:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/16/21 14:33	127-18-4	
Toluene	ND	ug/L	0.50	1		03/16/21 14:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 14:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/16/21 14:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/16/21 14:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/16/21 14:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/16/21 14:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/21 14:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/16/21 14:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 14:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/16/21 14:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/21 14:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/16/21 14:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/16/21 14:33	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/16/21 14:33	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/16/21 14:33	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/16/21 14:33	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: DUP-1-20210312	Lab ID: 92527474012	Collected: 03/12/21 00:00	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 21:08		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 21:08		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 21:08		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 21:08		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	103	%	70-130	1		03/15/21 21:08	460-00-4	
4-Bromofluorobenzene (PID) (S)	100	%	70-130	1		03/15/21 21:08	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>15.6</b>	ug/L	5.0	1	03/17/21 01:53	03/17/21 22:19	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/17/21 07:11	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/17/21 07:11	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/17/21 07:11	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/17/21 07:11	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/17/21 07:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/17/21 07:11	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/17/21 07:11	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/17/21 07:11	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/17/21 07:11	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/17/21 07:11	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/17/21 07:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/21 07:11	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/17/21 07:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/21 07:11	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 07:11	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 07:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/17/21 07:11	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/17/21 07:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/17/21 07:11	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/17/21 07:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 07:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 07:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 07:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/17/21 07:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/17/21 07:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/17/21 07:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/17/21 07:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 07:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 07:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 07:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/17/21 07:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 07:11	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: DUP-1-20210312	Lab ID: 92527474012	Collected: 03/12/21 00:00	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/17/21 07:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 07:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 07:11	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/17/21 07:11	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/17/21 07:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/17/21 07:11	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/17/21 07:11	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/17/21 07:11	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/17/21 07:11	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/17/21 07:11	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/17/21 07:11	103-65-1	
Styrene	ND	ug/L	0.50	1		03/17/21 07:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 07:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 07:11	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/17/21 07:11	127-18-4	
Toluene	ND	ug/L	0.50	1		03/17/21 07:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 07:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 07:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/17/21 07:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/17/21 07:11	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/17/21 07:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/21 07:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/17/21 07:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 07:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 07:11	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/21 07:11	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/17/21 07:11	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/17/21 07:11	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/17/21 07:11	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/17/21 07:11	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/17/21 07:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: Trip Blank	Lab ID: 92527474013	Collected: 03/12/21 00:00	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		03/17/21 02:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/17/21 02:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/17/21 02:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/17/21 02:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/17/21 02:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/17/21 02:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/17/21 02:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/17/21 02:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/17/21 02:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/17/21 02:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/17/21 02:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/21 02:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/17/21 02:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/21 02:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 02:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 02:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/17/21 02:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/17/21 02:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/17/21 02:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/17/21 02:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 02:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 02:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 02:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/17/21 02:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/17/21 02:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/17/21 02:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/17/21 02:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 02:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 02:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 02:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/17/21 02:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 02:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/17/21 02:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 02:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 02:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/17/21 02:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/17/21 02:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/17/21 02:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/17/21 02:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/17/21 02:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/17/21 02:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/17/21 02:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/17/21 02:43	103-65-1	
Styrene	ND	ug/L	0.50	1		03/17/21 02:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 02:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 02:43	79-34-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: Trip Blank		Lab ID: 92527474013	Collected: 03/12/21 00:00	Received: 03/12/21 14:08	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/17/21 02:43	127-18-4	
Toluene	ND	ug/L	0.50	1		03/17/21 02:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 02:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 02:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/17/21 02:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/17/21 02:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/17/21 02:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/21 02:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/17/21 02:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 02:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 02:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/21 02:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/17/21 02:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/17/21 02:43	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/17/21 02:43	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/17/21 02:43	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/17/21 02:43	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: Trip Blank	Lab ID: 92527474014	Collected: 03/12/21 00:00	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/17/21 03:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/17/21 03:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/17/21 03:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/17/21 03:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/17/21 03:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/17/21 03:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/17/21 03:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/17/21 03:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/21 03:01	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/17/21 03:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/21 03:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 03:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 03:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/17/21 03:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/17/21 03:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/17/21 03:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/17/21 03:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/17/21 03:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/17/21 03:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/17/21 03:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:01	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/17/21 03:01	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/17/21 03:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/17/21 03:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/17/21 03:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/17/21 03:01	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/17/21 03:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/17/21 03:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/17/21 03:01	103-65-1	
Styrene	ND	ug/L	0.50	1		03/17/21 03:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 03:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 03:01	79-34-5	

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### ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Sample: Trip Blank		Lab ID: 92527474014		Collected: 03/12/21 00:00		Received: 03/12/21 14:08		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>6200B MSV</b>		Analytical Method: SM 6200B							
		Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		03/17/21 03:01	127-18-4		
Toluene	ND	ug/L	0.50	1		03/17/21 03:01	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 03:01	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 03:01	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/17/21 03:01	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/17/21 03:01	79-00-5		
Trichloroethene	ND	ug/L	0.50	1		03/17/21 03:01	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/21 03:01	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/17/21 03:01	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 03:01	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 03:01	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/21 03:01	75-01-4		
m&p-Xylene	ND	ug/L	1.0	1		03/17/21 03:01	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		03/17/21 03:01	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/17/21 03:01	17060-07-0		
4-Bromofluorobenzene (S)	100	%	70-130	1		03/17/21 03:01	460-00-4		
Toluene-d8 (S)	100	%	70-130	1		03/17/21 03:01	2037-26-5		

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

QC Batch: 606584

Analysis Method: MADEP VPH

QC Batch Method: MADEP VPH

Analysis Description: VPH NC Water

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527474001, 92527474002, 92527474003, 92527474004, 92527474005, 92527474006, 92527474007, 92527474009, 92527474010, 92527474011, 92527474012

METHOD BLANK: 3195792

Matrix: Water

Associated Lab Samples: 92527474001, 92527474002, 92527474003, 92527474004, 92527474005, 92527474006, 92527474007, 92527474009, 92527474010, 92527474011, 92527474012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/15/21 13:58	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/15/21 13:58	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/15/21 13:58	N2
4-Bromofluorobenzene (FID) (S)	%	104	70-130	03/15/21 13:58	
4-Bromofluorobenzene (PID) (S)	%	101	70-130	03/15/21 13:58	

LABORATORY CONTROL SAMPLE & LCSD: 3195793

3195794

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	338	333	113	111	70-130	1	25	N2
Aliphatic (C09-C12)	ug/L	300	331	319	110	106	70-130	4	25	N2
Aromatic (C09-C10)	ug/L	100	99.4	95.8	99	96	70-130	4	25	N2
4-Bromofluorobenzene (FID) (S)	%				103	101	70-130			
4-Bromofluorobenzene (PID) (S)	%				99	98	70-130			

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.

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

QC Batch: 606592	Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH	Analysis Description: VPH NC Water
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527474008

METHOD BLANK: 3195851 Matrix: Water

Associated Lab Samples: 92527474008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/17/21 14:50	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/17/21 14:50	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/17/21 14:50	N2
4-Bromofluorobenzene (FID) (S)	%	106	70-130	03/17/21 14:50	
4-Bromofluorobenzene (PID) (S)	%	101	70-130	03/17/21 14:50	

LABORATORY CONTROL SAMPLE & LCSD: 3195852

3195853

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	365	356	122	119	70-130	2	25	N2
Aliphatic (C09-C12)	ug/L	300	344	343	115	114	70-130	0	25	N2
Aromatic (C09-C10)	ug/L	100	100	99.7	100	100	70-130	1	25	N2
4-Bromofluorobenzene (FID) (S)	%				111	108	70-130			
4-Bromofluorobenzene (PID) (S)	%				105	101	70-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

QC Batch:	607049	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92527474001, 92527474002, 92527474003, 92527474004, 92527474005, 92527474006, 92527474007, 92527474008, 92527474009, 92527474010, 92527474011, 92527474012

METHOD BLANK: 3198343 Matrix: Water

Associated Lab Samples: 92527474001, 92527474002, 92527474003, 92527474004, 92527474005, 92527474006, 92527474007, 92527474008, 92527474009, 92527474010, 92527474011, 92527474012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/17/21 20:55	

LABORATORY CONTROL SAMPLE: 3198344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198345 3198346

Parameter	92527327015		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result									
Lead	ug/L	ND	500	500	477	493	95	98	75-125	3	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

QC Batch: 606549

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527474001, 92527474003, 92527474004, 92527474005, 92527474006, 92527474007, 92527474009, 92527474010, 92527474011

METHOD BLANK: 3195546

Matrix: Water

Associated Lab Samples: 92527474001, 92527474003, 92527474004, 92527474005, 92527474006, 92527474007, 92527474009, 92527474010, 92527474011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/16/21 10:59	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/16/21 10:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/16/21 10:59	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/16/21 10:59	
1,1-Dichloroethane	ug/L	ND	0.50	03/16/21 10:59	
1,1-Dichloroethene	ug/L	ND	0.50	03/16/21 10:59	
1,1-Dichloropropene	ug/L	ND	0.50	03/16/21 10:59	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/16/21 10:59	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/16/21 10:59	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/16/21 10:59	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/16/21 10:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/16/21 10:59	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/16/21 10:59	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/16/21 10:59	
1,2-Dichloroethane	ug/L	ND	0.50	03/16/21 10:59	
1,2-Dichloropropane	ug/L	ND	0.50	03/16/21 10:59	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/16/21 10:59	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/16/21 10:59	
1,3-Dichloropropane	ug/L	ND	0.50	03/16/21 10:59	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/16/21 10:59	
2,2-Dichloropropane	ug/L	ND	0.50	03/16/21 10:59	
2-Chlorotoluene	ug/L	ND	0.50	03/16/21 10:59	
4-Chlorotoluene	ug/L	ND	0.50	03/16/21 10:59	
Benzene	ug/L	ND	0.50	03/16/21 10:59	
Bromobenzene	ug/L	ND	0.50	03/16/21 10:59	
Bromochloromethane	ug/L	ND	0.50	03/16/21 10:59	
Bromodichloromethane	ug/L	ND	0.50	03/16/21 10:59	
Bromoform	ug/L	ND	0.50	03/16/21 10:59	
Bromomethane	ug/L	ND	5.0	03/16/21 10:59	
Carbon tetrachloride	ug/L	ND	0.50	03/16/21 10:59	
Chlorobenzene	ug/L	ND	0.50	03/16/21 10:59	
Chloroethane	ug/L	ND	1.0	03/16/21 10:59	
Chloroform	ug/L	ND	0.50	03/16/21 10:59	
Chloromethane	ug/L	ND	1.0	03/16/21 10:59	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/16/21 10:59	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/16/21 10:59	
Dibromochloromethane	ug/L	ND	0.50	03/16/21 10:59	
Dibromomethane	ug/L	ND	0.50	03/16/21 10:59	
Dichlorodifluoromethane	ug/L	ND	0.50	03/16/21 10:59	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

METHOD BLANK: 3195546

Matrix: Water

Associated Lab Samples: 92527474001, 92527474003, 92527474004, 92527474005, 92527474006, 92527474007, 92527474009, 92527474010, 92527474011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	0.50	03/16/21 10:59	
Ethylbenzene	ug/L	ND	0.50	03/16/21 10:59	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/16/21 10:59	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/16/21 10:59	
m&p-Xylene	ug/L	ND	1.0	03/16/21 10:59	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/16/21 10:59	
Methylene Chloride	ug/L	ND	2.0	03/16/21 10:59	
n-Butylbenzene	ug/L	ND	0.50	03/16/21 10:59	
n-Propylbenzene	ug/L	ND	0.50	03/16/21 10:59	
Naphthalene	ug/L	ND	2.0	03/16/21 10:59	
o-Xylene	ug/L	ND	0.50	03/16/21 10:59	
sec-Butylbenzene	ug/L	ND	0.50	03/16/21 10:59	
Styrene	ug/L	ND	0.50	03/16/21 10:59	
tert-Butylbenzene	ug/L	ND	0.50	03/16/21 10:59	
Tetrachloroethene	ug/L	ND	0.50	03/16/21 10:59	
Toluene	ug/L	ND	0.50	03/16/21 10:59	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/16/21 10:59	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/16/21 10:59	
Trichloroethene	ug/L	ND	0.50	03/16/21 10:59	
Trichlorofluoromethane	ug/L	ND	1.0	03/16/21 10:59	
Vinyl chloride	ug/L	ND	1.0	03/16/21 10:59	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/16/21 10:59	
4-Bromofluorobenzene (S)	%	100	70-130	03/16/21 10:59	
Toluene-d8 (S)	%	100	70-130	03/16/21 10:59	

LABORATORY CONTROL SAMPLE: 3195547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.8	110	60-140	
1,1,1-Trichloroethane	ug/L	50	50.0	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.6	107	60-140	
1,1,2-Trichloroethane	ug/L	50	52.1	104	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	50.8	102	60-140	
1,1-Dichloropropene	ug/L	50	51.4	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.9	106	60-140	
1,2,3-Trichloropropane	ug/L	50	53.6	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	54.5	109	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.7	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.5	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.2	108	60-140	
1,2-Dichlorobenzene	ug/L	50	49.6	99	60-140	
1,2-Dichloroethane	ug/L	50	49.6	99	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

LABORATORY CONTROL SAMPLE: 3195547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	50.1	100	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.7	103	60-140	
1,3-Dichlorobenzene	ug/L	50	50.4	101	60-140	
1,3-Dichloropropane	ug/L	50	52.2	104	60-140	
1,4-Dichlorobenzene	ug/L	50	49.5	99	60-140	
2,2-Dichloropropane	ug/L	50	51.5	103	60-140	
2-Chlorotoluene	ug/L	50	49.7	99	60-140	
4-Chlorotoluene	ug/L	50	48.3	97	60-140	
Benzene	ug/L	50	50.2	100	60-140	
Bromobenzene	ug/L	50	49.0	98	60-140	
Bromochloromethane	ug/L	50	50.9	102	60-140	
Bromodichloromethane	ug/L	50	52.0	104	60-140	
Bromoform	ug/L	50	45.8	92	60-140	
Bromomethane	ug/L	50	47.0	94	60-140	
Carbon tetrachloride	ug/L	50	53.3	107	60-140	
Chlorobenzene	ug/L	50	50.6	101	60-140	
Chloroethane	ug/L	50	42.0	84	60-140	
Chloroform	ug/L	50	47.9	96	60-140	
Chloromethane	ug/L	50	42.5	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.2	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.7	109	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.5	105	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	46.3	93	60-140	
Ethylbenzene	ug/L	50	51.0	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.7	111	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.9	106	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	49.3	99	60-140	
Methylene Chloride	ug/L	50	42.7	85	60-140	
n-Butylbenzene	ug/L	50	55.4	111	60-140	
n-Propylbenzene	ug/L	50	49.2	98	60-140	
Naphthalene	ug/L	50	52.6	105	60-140	
o-Xylene	ug/L	50	51.0	102	60-140	
sec-Butylbenzene	ug/L	50	51.1	102	60-140	
Styrene	ug/L	50	51.3	103	60-140	
tert-Butylbenzene	ug/L	50	41.6	83	60-140	
Tetrachloroethene	ug/L	50	51.6	103	60-140	
Toluene	ug/L	50	50.2	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.0	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	53.1	106	60-140	
Trichloroethene	ug/L	50	52.3	105	60-140	
Trichlorofluoromethane	ug/L	50	44.5	89	60-140	
Vinyl chloride	ug/L	50	42.8	86	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

LABORATORY CONTROL SAMPLE: 3195547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198479 3198480

Parameter	92527429001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result									
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.1	21.1	96	106	60-140	10	
1,1,1-Trichloroethane	ug/L	ND	20	20	18.9	20.4	94	102	60-140	8	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.3	20.4	92	102	60-140	11	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.4	20.4	92	102	60-140	10	
1,1-Dichloroethane	ug/L	ND	20	20	18.3	20.2	91	101	60-140	10	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	22.0	102	110	60-140	8	
1,1-Dichloropropene	ug/L	ND	20	20	19.5	21.3	97	107	60-140	9	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.5	21.8	113	109	60-140	4	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	21.2	95	106	60-140	11	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.5	21.0	98	105	60-140	7	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.3	21.9	101	110	60-140	8	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.0	21.3	95	106	60-140	11	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.6	20.9	98	105	60-140	6	
1,2-Dichloroethane	ug/L	ND	20	20	16.6	18.1	83	91	60-140	9	
1,2-Dichloropropane	ug/L	ND	20	20	18.2	20.0	91	100	60-140	9	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.6	21.4	98	107	60-140	9	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.9	21.4	99	107	60-140	7	
1,3-Dichloropropane	ug/L	ND	20	20	18.8	20.9	94	105	60-140	11	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.0	21.2	100	106	60-140	6	
2,2-Dichloropropane	ug/L	ND	20	20	20.6	22.5	103	112	60-140	9	
2-Chlorotoluene	ug/L	ND	20	20	19.3	21.5	96	107	60-140	11	
4-Chlorotoluene	ug/L	ND	20	20	19.2	20.6	96	103	60-140	7	
Benzene	ug/L	ND	20	20	18.7	20.7	93	103	60-140	10	
Bromobenzene	ug/L	ND	20	20	18.9	20.7	95	104	60-140	9	
Bromochloromethane	ug/L	ND	20	20	18.5	20.3	93	102	60-140	9	
Bromodichloromethane	ug/L	ND	20	20	17.6	19.3	88	96	60-140	9	
Bromoform	ug/L	ND	20	20	18.7	20.6	93	103	60-140	10	
Bromomethane	ug/L	ND	20	20	19.3	19.5	97	98	60-140	1	
Carbon tetrachloride	ug/L	ND	20	20	21.2	22.9	106	114	60-140	8	
Chlorobenzene	ug/L	ND	20	20	19.7	21.6	98	108	60-140	9	
Chloroethane	ug/L	ND	20	20	21.4	23.0	107	115	60-140	7	
Chloroform	ug/L	ND	20	20	18.5	19.5	92	98	60-140	5	
Chloromethane	ug/L	ND	20	20	17.7	19.7	89	98	60-140	10	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.5	19.6	93	98	60-140	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	21.0	97	105	60-140	8	
Dibromochloromethane	ug/L	ND	20	20	19.5	21.6	98	108	60-140	10	
Dibromomethane	ug/L	ND	20	20	19.3	21.0	96	105	60-140	9	
Dichlorodifluoromethane	ug/L	ND	20	20	17.4	18.7	87	93	60-140	7	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Parameter	92527429001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Diisopropyl ether	ug/L	ND	20	20	17.1	18.9	86	94	60-140	10				
Ethylbenzene	ug/L	ND	20	20	19.9	21.8	99	109	60-140	9				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.5	23.9	122	119	60-140	2				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.1	22.1	100	111	60-140	10				
m&p-Xylene	ug/L	ND	40	40	39.6	43.7	99	109	60-140	10				
Methyl-tert-butyl ether	ug/L	ND	20	20	17.7	19.7	89	98	60-140	10				
Methylene Chloride	ug/L	ND	20	20	18.5	20.2	92	101	60-140	9				
n-Butylbenzene	ug/L	ND	20	20	21.8	22.5	109	113	60-140	3				
n-Propylbenzene	ug/L	ND	20	20	20.1	21.7	100	109	60-140	8				
Naphthalene	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2				
o-Xylene	ug/L	ND	20	20	19.3	21.1	97	106	60-140	9				
sec-Butylbenzene	ug/L	ND	20	20	20.9	22.6	105	113	60-140	8				
Styrene	ug/L	ND	20	20	18.7	20.7	94	103	60-140	10				
tert-Butylbenzene	ug/L	ND	20	20	17.2	18.7	86	94	60-140	9				
Tetrachloroethene	ug/L	ND	20	20	20.4	22.6	102	113	60-140	10				
Toluene	ug/L	ND	20	20	19.5	21.3	98	107	60-140	9				
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.6	21.1	98	105	60-140	7				
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.0	20.8	95	104	60-140	9				
Trichloroethene	ug/L	ND	20	20	20.2	21.9	101	109	60-140	8				
Trichlorofluoromethane	ug/L	ND	20	20	22.8	24.6	114	123	60-140	7				
Vinyl chloride	ug/L	ND	20	20	18.7	20.4	94	102	60-140	8				
1,2-Dichloroethane-d4 (S)	%						96	100	70-130					
4-Bromofluorobenzene (S)	%						98	98	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: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

QC Batch: 606968 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92527474012, 92527474013, 92527474014

METHOD BLANK: 3197877 Matrix: Water  
Associated Lab Samples: 92527474012, 92527474013, 92527474014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1-Dichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1-Dichloroethene	ug/L	ND	0.50	03/17/21 00:38	
1,1-Dichloropropene	ug/L	ND	0.50	03/17/21 00:38	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/17/21 00:38	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/17/21 00:38	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/17/21 00:38	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/17/21 00:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dichloropropane	ug/L	ND	0.50	03/17/21 00:38	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/17/21 00:38	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
1,3-Dichloropropane	ug/L	ND	0.50	03/17/21 00:38	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
2,2-Dichloropropane	ug/L	ND	0.50	03/17/21 00:38	
2-Chlorotoluene	ug/L	ND	0.50	03/17/21 00:38	
4-Chlorotoluene	ug/L	ND	0.50	03/17/21 00:38	
Benzene	ug/L	ND	0.50	03/17/21 00:38	
Bromobenzene	ug/L	ND	0.50	03/17/21 00:38	
Bromochloromethane	ug/L	ND	0.50	03/17/21 00:38	
Bromodichloromethane	ug/L	ND	0.50	03/17/21 00:38	
Bromoform	ug/L	ND	0.50	03/17/21 00:38	
Bromomethane	ug/L	ND	5.0	03/17/21 00:38	
Carbon tetrachloride	ug/L	ND	0.50	03/17/21 00:38	
Chlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
Chloroethane	ug/L	ND	1.0	03/17/21 00:38	
Chloroform	ug/L	ND	0.50	03/17/21 00:38	
Chloromethane	ug/L	ND	1.0	03/17/21 00:38	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/17/21 00:38	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/17/21 00:38	
Dibromochloromethane	ug/L	ND	0.50	03/17/21 00:38	
Dibromomethane	ug/L	ND	0.50	03/17/21 00:38	
Dichlorodifluoromethane	ug/L	ND	0.50	03/17/21 00:38	
Diisopropyl ether	ug/L	ND	0.50	03/17/21 00:38	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

METHOD BLANK: 3197877 Matrix: Water  
Associated Lab Samples: 92527474012, 92527474013, 92527474014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/17/21 00:38	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/17/21 00:38	
m&p-Xylene	ug/L	ND	1.0	03/17/21 00:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/17/21 00:38	
Methylene Chloride	ug/L	ND	2.0	03/17/21 00:38	
n-Butylbenzene	ug/L	ND	0.50	03/17/21 00:38	
n-Propylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Naphthalene	ug/L	ND	2.0	03/17/21 00:38	
o-Xylene	ug/L	ND	0.50	03/17/21 00:38	
sec-Butylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Styrene	ug/L	ND	0.50	03/17/21 00:38	
tert-Butylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Tetrachloroethene	ug/L	ND	0.50	03/17/21 00:38	
Toluene	ug/L	ND	0.50	03/17/21 00:38	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/17/21 00:38	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/17/21 00:38	
Trichloroethene	ug/L	ND	0.50	03/17/21 00:38	
Trichlorofluoromethane	ug/L	ND	1.0	03/17/21 00:38	
Vinyl chloride	ug/L	ND	1.0	03/17/21 00:38	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/17/21 00:38	
4-Bromofluorobenzene (S)	%	102	70-130	03/17/21 00:38	
Toluene-d8 (S)	%	100	70-130	03/17/21 00:38	

LABORATORY CONTROL SAMPLE: 3197878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.8	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.3	107	60-140	
1,1,2-Trichloroethane	ug/L	50	53.9	108	60-140	
1,1-Dichloroethane	ug/L	50	49.1	98	60-140	
1,1-Dichloroethene	ug/L	50	50.9	102	60-140	
1,1-Dichloropropene	ug/L	50	50.7	101	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.4	105	60-140	
1,2,3-Trichloropropane	ug/L	50	52.0	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.2	100	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.1	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	60-140	
1,2-Dichlorobenzene	ug/L	50	49.8	100	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	49.7	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

LABORATORY CONTROL SAMPLE: 3197878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	52.1	104	60-140	
1,4-Dichlorobenzene	ug/L	50	48.1	96	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	48.9	98	60-140	
4-Chlorotoluene	ug/L	50	48.5	97	60-140	
Benzene	ug/L	50	50.0	100	60-140	
Bromobenzene	ug/L	50	48.1	96	60-140	
Bromochloromethane	ug/L	50	51.9	104	60-140	
Bromodichloromethane	ug/L	50	51.4	103	60-140	
Bromoform	ug/L	50	45.1	90	60-140	
Bromomethane	ug/L	50	44.5	89	60-140	
Carbon tetrachloride	ug/L	50	52.5	105	60-140	
Chlorobenzene	ug/L	50	50.2	100	60-140	
Chloroethane	ug/L	50	43.4	87	60-140	
Chloroform	ug/L	50	49.5	99	60-140	
Chloromethane	ug/L	50	37.9	76	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.7	93	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.9	110	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	53.2	106	60-140	
Dichlorodifluoromethane	ug/L	50	42.4	85	60-140	
Diisopropyl ether	ug/L	50	46.7	93	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.9	106	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.8	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	51.0	102	60-140	
Methylene Chloride	ug/L	50	44.4	89	60-140	
n-Butylbenzene	ug/L	50	54.1	108	60-140	
n-Propylbenzene	ug/L	50	48.1	96	60-140	
Naphthalene	ug/L	50	50.9	102	60-140	
o-Xylene	ug/L	50	51.4	103	60-140	
sec-Butylbenzene	ug/L	50	49.9	100	60-140	
Styrene	ug/L	50	50.7	101	60-140	
tert-Butylbenzene	ug/L	50	40.6	81	60-140	
Tetrachloroethene	ug/L	50	51.2	102	60-140	
Toluene	ug/L	50	49.9	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.2	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	60-140	
Trichloroethene	ug/L	50	50.4	101	60-140	
Trichlorofluoromethane	ug/L	50	45.1	90	60-140	
Vinyl chloride	ug/L	50	42.0	84	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

Parameter	92527425002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	100	100	115	111	115	111	60-140	3				
1,1,1-Trichloroethane	ug/L	ND	100	100	113	106	113	106	60-140	6				
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	115	117	115	117	60-140	1				
1,1,2-Trichloroethane	ug/L	ND	100	100	116	119	116	119	60-140	2				
1,1-Dichloroethane	ug/L	ND	100	100	112	108	112	108	60-140	4				
1,1-Dichloroethene	ug/L	ND	100	100	120	110	120	110	60-140	9				
1,1-Dichloropropene	ug/L	ND	100	100	116	109	116	109	60-140	7				
1,2,3-Trichlorobenzene	ug/L	ND	100	100	102	106	102	106	60-140	4				
1,2,3-Trichloropropane	ug/L	ND	100	100	116	118	116	118	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	100	100	116	115	116	115	60-140	1				
1,2,4-Trimethylbenzene	ug/L	234	100	100	367	348	133	114	60-140	5				
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	106	109	106	109	60-140	2				
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	120	119	120	119	60-140	0				
1,2-Dichlorobenzene	ug/L	ND	100	100	112	103	112	103	60-140	8				
1,2-Dichloroethane	ug/L	ND	100	100	112	110	112	110	60-140	2				
1,2-Dichloropropane	ug/L	ND	100	100	113	113	113	113	60-140	0				
1,3,5-Trimethylbenzene	ug/L	ND	100	100	159	153	159	153	60-140	4	M1			
1,3-Dichlorobenzene	ug/L	ND	100	100	111	107	111	107	60-140	4				
1,3-Dichloropropane	ug/L	ND	100	100	116	116	116	116	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	100	100	109	103	109	103	60-140	5				
2,2-Dichloropropane	ug/L	ND	100	100	94.0	87.0	94	87	60-140	8				
2-Chlorotoluene	ug/L	ND	100	100	121	116	121	116	60-140	4				
4-Chlorotoluene	ug/L	ND	100	100	111	105	111	105	60-140	5				
Benzene	ug/L	180	100	100	302	291	122	111	60-140	4				
Bromobenzene	ug/L	ND	100	100	106	105	106	105	60-140	2				
Bromochloromethane	ug/L	ND	100	100	115	113	115	113	60-140	1				
Bromodichloromethane	ug/L	ND	100	100	113	111	113	111	60-140	2				
Bromoform	ug/L	ND	100	100	94.4	95.6	94	96	60-140	1				
Bromomethane	ug/L	ND	100	100	109	95.5	109	95	60-140	14				
Carbon tetrachloride	ug/L	ND	100	100	123	114	123	114	60-140	7				
Chlorobenzene	ug/L	ND	100	100	118	115	118	115	60-140	2				
Chloroethane	ug/L	ND	100	100	116	109	116	109	60-140	6				
Chloroform	ug/L	ND	100	100	112	106	112	106	60-140	6				
Chloromethane	ug/L	ND	100	100	80.7	80.0	81	80	60-140	1				
cis-1,2-Dichloroethene	ug/L	ND	100	100	107	104	107	104	60-140	3				
cis-1,3-Dichloropropene	ug/L	ND	100	100	111	108	111	108	60-140	3				
Dibromochloromethane	ug/L	ND	100	100	116	117	116	117	60-140	1				
Dibromomethane	ug/L	ND	100	100	113	115	113	115	60-140	2				
Dichlorodifluoromethane	ug/L	ND	100	100	93.8	89.0	94	89	60-140	5				
Diisopropyl ether	ug/L	ND	100	100	101	101	101	101	60-140	1				
Ethylbenzene	ug/L	853	100	100	1010	977	157	124	60-140	3	E			
Hexachloro-1,3-butadiene	ug/L	ND	100	100	109	109	109	109	60-140	0				
Isopropylbenzene (Cumene)	ug/L	76.6	100	100	199	193	123	117	60-140	3				
m&p-Xylene	ug/L	541	200	200	794	773	126	116	60-140	3				
Methyl-tert-butyl ether	ug/L	ND	100	100	105	103	105	103	60-140	2				
Methylene Chloride	ug/L	ND	100	100	104	101	104	101	60-140	3				

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

Parameter	Units	3197879		3197880		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92527425002 Result	MS Spike Conc.	MSD Spike Conc.	MSD Result							
n-Butylbenzene	ug/L	ND	100	100	133	135	133	135	60-140	1		
n-Propylbenzene	ug/L	193	100	100	316	300	123	107	60-140	5		
Naphthalene	ug/L	280	100	100	396	397	116	116	60-140	0		
o-Xylene	ug/L	60.8	100	100	174	169	113	109	60-140	3		
sec-Butylbenzene	ug/L	ND	100	100	123	120	123	120	60-140	2		
Styrene	ug/L	ND	100	100	114	111	114	111	60-140	3		
tert-Butylbenzene	ug/L	ND	100	100	94.5	90.0	94	90	60-140	5		
Tetrachloroethene	ug/L	ND	100	100	115	115	115	115	60-140	0		
Toluene	ug/L	70.7	100	100	187	178	116	108	60-140	5		
trans-1,2-Dichloroethene	ug/L	ND	100	100	109	104	109	104	60-140	5		
trans-1,3-Dichloropropene	ug/L	ND	100	100	105	105	105	105	60-140	1		
Trichloroethene	ug/L	ND	100	100	116	114	116	114	60-140	2		
Trichlorofluoromethane	ug/L	ND	100	100	110	103	110	103	60-140	6		
Vinyl chloride	ug/L	ND	100	100	96.6	92.4	97	92	60-140	4		
1,2-Dichloroethane-d4 (S)	%						99	94	70-130			
4-Bromofluorobenzene (S)	%						99	101	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

QC Batch: 607283

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527474002, 92527474008

METHOD BLANK: 3199207

Matrix: Water

Associated Lab Samples: 92527474002, 92527474008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/17/21 12:59	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/17/21 12:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/17/21 12:59	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/17/21 12:59	
1,1-Dichloroethane	ug/L	ND	0.50	03/17/21 12:59	
1,1-Dichloroethene	ug/L	ND	0.50	03/17/21 12:59	
1,1-Dichloropropene	ug/L	ND	0.50	03/17/21 12:59	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/17/21 12:59	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/17/21 12:59	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/17/21 12:59	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/17/21 12:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/17/21 12:59	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/17/21 12:59	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/17/21 12:59	
1,2-Dichloroethane	ug/L	ND	0.50	03/17/21 12:59	
1,2-Dichloropropane	ug/L	ND	0.50	03/17/21 12:59	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/17/21 12:59	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/17/21 12:59	
1,3-Dichloropropane	ug/L	ND	0.50	03/17/21 12:59	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/17/21 12:59	
2,2-Dichloropropane	ug/L	ND	0.50	03/17/21 12:59	
2-Chlorotoluene	ug/L	ND	0.50	03/17/21 12:59	
4-Chlorotoluene	ug/L	ND	0.50	03/17/21 12:59	
Benzene	ug/L	ND	0.50	03/17/21 12:59	
Bromobenzene	ug/L	ND	0.50	03/17/21 12:59	
Bromochloromethane	ug/L	ND	0.50	03/17/21 12:59	
Bromodichloromethane	ug/L	ND	0.50	03/17/21 12:59	
Bromoform	ug/L	ND	0.50	03/17/21 12:59	
Bromomethane	ug/L	ND	5.0	03/17/21 12:59	
Carbon tetrachloride	ug/L	ND	0.50	03/17/21 12:59	
Chlorobenzene	ug/L	ND	0.50	03/17/21 12:59	
Chloroethane	ug/L	ND	1.0	03/17/21 12:59	
Chloroform	ug/L	ND	0.50	03/17/21 12:59	
Chloromethane	ug/L	ND	1.0	03/17/21 12:59	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/17/21 12:59	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/17/21 12:59	
Dibromochloromethane	ug/L	ND	0.50	03/17/21 12:59	
Dibromomethane	ug/L	ND	0.50	03/17/21 12:59	
Dichlorodifluoromethane	ug/L	ND	0.50	03/17/21 12:59	
Diisopropyl ether	ug/L	ND	0.50	03/17/21 12:59	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

METHOD BLANK: 3199207

Matrix: Water

Associated Lab Samples: 92527474002, 92527474008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/17/21 12:59	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/17/21 12:59	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/17/21 12:59	
m&p-Xylene	ug/L	ND	1.0	03/17/21 12:59	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/17/21 12:59	
Methylene Chloride	ug/L	ND	2.0	03/17/21 12:59	
n-Butylbenzene	ug/L	ND	0.50	03/17/21 12:59	
n-Propylbenzene	ug/L	ND	0.50	03/17/21 12:59	
Naphthalene	ug/L	ND	2.0	03/17/21 12:59	
o-Xylene	ug/L	ND	0.50	03/17/21 12:59	
sec-Butylbenzene	ug/L	ND	0.50	03/17/21 12:59	
Styrene	ug/L	ND	0.50	03/17/21 12:59	
tert-Butylbenzene	ug/L	ND	0.50	03/17/21 12:59	
Tetrachloroethene	ug/L	ND	0.50	03/17/21 12:59	
Toluene	ug/L	ND	0.50	03/17/21 12:59	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/17/21 12:59	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/17/21 12:59	
Trichloroethene	ug/L	ND	0.50	03/17/21 12:59	
Trichlorofluoromethane	ug/L	ND	1.0	03/17/21 12:59	
Vinyl chloride	ug/L	ND	1.0	03/17/21 12:59	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/17/21 12:59	
4-Bromofluorobenzene (S)	%	101	70-130	03/17/21 12:59	
Toluene-d8 (S)	%	101	70-130	03/17/21 12:59	

LABORATORY CONTROL SAMPLE: 3199208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.7	109	60-140	
1,1,1-Trichloroethane	ug/L	50	48.0	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.4	107	60-140	
1,1,2-Trichloroethane	ug/L	50	52.7	105	60-140	
1,1-Dichloroethane	ug/L	50	46.5	93	60-140	
1,1-Dichloroethene	ug/L	50	47.1	94	60-140	
1,1-Dichloropropene	ug/L	50	48.7	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.4	115	60-140	
1,2,3-Trichloropropane	ug/L	50	51.7	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.1	116	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.0	112	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.5	109	60-140	
1,2-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,2-Dichloroethane	ug/L	50	48.6	97	60-140	
1,2-Dichloropropane	ug/L	50	49.6	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.4	105	60-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

LABORATORY CONTROL SAMPLE: 3199208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,3-Dichloropropane	ug/L	50	51.5	103	60-140	
1,4-Dichlorobenzene	ug/L	50	50.3	101	60-140	
2,2-Dichloropropane	ug/L	50	49.2	98	60-140	
2-Chlorotoluene	ug/L	50	50.2	100	60-140	
4-Chlorotoluene	ug/L	50	49.8	100	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	49.8	100	60-140	
Bromochloromethane	ug/L	50	49.3	99	60-140	
Bromodichloromethane	ug/L	50	50.4	101	60-140	
Bromoform	ug/L	50	44.6	89	60-140	
Bromomethane	ug/L	50	45.6	91	60-140	
Carbon tetrachloride	ug/L	50	49.6	99	60-140	
Chlorobenzene	ug/L	50	50.1	100	60-140	
Chloroethane	ug/L	50	40.3	81	60-140	
Chloroform	ug/L	50	47.2	94	60-140	
Chloromethane	ug/L	50	35.6	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.8	90	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.1	108	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	50.7	101	60-140	
Dichlorodifluoromethane	ug/L	50	40.5	81	60-140	
Diisopropyl ether	ug/L	50	45.3	91	60-140	
Ethylbenzene	ug/L	50	49.1	98	60-140	
Hexachloro-1,3-butadiene	ug/L	50	57.4	115	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.6	103	60-140	
m&p-Xylene	ug/L	100	98.6	99	60-140	
Methyl-tert-butyl ether	ug/L	50	48.1	96	60-140	
Methylene Chloride	ug/L	50	42.8	86	60-140	
n-Butylbenzene	ug/L	50	57.5	115	60-140	
n-Propylbenzene	ug/L	50	50.7	101	60-140	
Naphthalene	ug/L	50	54.6	109	60-140	
o-Xylene	ug/L	50	50.5	101	60-140	
sec-Butylbenzene	ug/L	50	52.7	105	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	42.7	85	60-140	
Tetrachloroethene	ug/L	50	49.6	99	60-140	
Toluene	ug/L	50	49.0	98	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.2	92	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.3	105	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	42.3	85	60-140	
Vinyl chloride	ug/L	50	38.2	76	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

Parameter	92527497002		MS	MSD	3200442		3200443		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	2000	2000	2110	2120	105	106	60-140	1			
1,1,1-Trichloroethane	ug/L	ND	2000	2000	2060	2080	103	104	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	2000	2000	2010	2030	100	102	60-140	1			
1,1,2-Trichloroethane	ug/L	ND	2000	2000	2070	2100	104	105	60-140	1			
1,1-Dichloroethane	ug/L	ND	2000	2000	2030	2040	102	102	60-140	0			
1,1-Dichloroethene	ug/L	ND	2000	2000	2180	2200	109	110	60-140	1			
1,1-Dichloropropene	ug/L	ND	2000	2000	2100	2120	105	106	60-140	1			
1,2,3-Trichlorobenzene	ug/L	ND	2000	2000	2180	2190	109	110	60-140	0			
1,2,3-Trichloropropane	ug/L	ND	2000	2000	2090	2110	104	106	60-140	1			
1,2,4-Trichlorobenzene	ug/L	ND	2000	2000	2210	2230	111	112	60-140	1			
1,2,4-Trimethylbenzene	ug/L	2380	2000	2000	4240	4230	93	92	60-140	0			
1,2-Dibromo-3-chloropropane	ug/L	ND	2000	2000	2150	2120	107	106	60-140	1			
1,2-Dibromoethane (EDB)	ug/L	361	2000	2000	2420	2420	103	103	60-140	0			
1,2-Dichlorobenzene	ug/L	ND	2000	2000	2130	2140	106	107	60-140	0			
1,2-Dichloroethane	ug/L	ND	2000	2000	1840	1860	91	92	60-140	1			
1,2-Dichloropropane	ug/L	ND	2000	2000	2020	1990	101	100	60-140	2			
1,3,5-Trimethylbenzene	ug/L	732	2000	2000	2800	2780	103	102	60-140	1			
1,3-Dichlorobenzene	ug/L	ND	2000	2000	2170	2180	108	109	60-140	1			
1,3-Dichloropropane	ug/L	ND	2000	2000	2040	2070	102	104	60-140	2			
1,4-Dichlorobenzene	ug/L	ND	2000	2000	2170	2170	108	108	60-140	0			
2,2-Dichloropropane	ug/L	ND	2000	2000	2210	2250	111	112	60-140	2			
2-Chlorotoluene	ug/L	ND	2000	2000	2160	2320	108	116	60-140	7			
4-Chlorotoluene	ug/L	ND	2000	2000	2050	2050	102	103	60-140	0			
Benzene	ug/L	919	2000	2000	2910	2980	100	103	60-140	2			
Bromobenzene	ug/L	ND	2000	2000	2090	2060	104	103	60-140	1			
Bromochloromethane	ug/L	ND	2000	2000	2050	2090	103	105	60-140	2			
Bromodichloromethane	ug/L	ND	2000	2000	1970	1970	98	99	60-140	0			
Bromoform	ug/L	ND	2000	2000	2030	2050	101	102	60-140	1			
Bromomethane	ug/L	ND	2000	2000	2450	2660	122	133	60-140	8			
Carbon tetrachloride	ug/L	ND	2000	2000	2320	2370	116	118	60-140	2			
Chlorobenzene	ug/L	ND	2000	2000	2170	2180	109	109	60-140	0			
Chloroethane	ug/L	ND	2000	2000	2480	2550	124	127	60-140	3			
Chloroform	ug/L	ND	2000	2000	1930	1960	97	98	60-140	2			
Chloromethane	ug/L	ND	2000	2000	1980	1910	99	96	60-140	3			
cis-1,2-Dichloroethene	ug/L	ND	2000	2000	1970	2000	99	100	60-140	2			
cis-1,3-Dichloropropene	ug/L	ND	2000	2000	2110	2130	106	107	60-140	1			
Dibromochloromethane	ug/L	ND	2000	2000	2120	2130	106	107	60-140	1			
Dibromomethane	ug/L	ND	2000	2000	2120	2180	106	109	60-140	3			
Dichlorodifluoromethane	ug/L	ND	2000	2000	2210	2240	111	112	60-140	1			
Diisopropyl ether	ug/L	ND	2000	2000	1820	1840	91	92	60-140	1			
Ethylbenzene	ug/L	1780	2000	2000	3730	3740	97	98	60-140	0			
Hexachloro-1,3-butadiene	ug/L	ND	2000	2000	2330	2340	116	117	60-140	1			
Isopropylbenzene (Cumene)	ug/L	89.8	2000	2000	2290	2330	110	112	60-140	2			
m&p-Xylene	ug/L	8890	4000	4000	12100	12000	81	78	60-140	1			
Methyl-tert-butyl ether	ug/L	ND	2000	2000	1930	1950	97	97	60-140	1			
Methylene Chloride	ug/L	ND	2000	2000	2000	2050	100	102	60-140	3			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527474

Parameter	92527497002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	2000	2000	2250	2280	113	114	60-140	1				
n-Propylbenzene	ug/L	ND	2000	2000	2250	2260	113	113	60-140	1				
Naphthalene	ug/L	992	2000	2000	2990	3080	100	104	60-140	3				
o-Xylene	ug/L	5110	2000	2000	6470	6450	68	67	60-140	0				
sec-Butylbenzene	ug/L	ND	2000	2000	2270	2270	113	113	60-140	0				
Styrene	ug/L	ND	2000	2000	2130	2160	106	108	60-140	2				
tert-Butylbenzene	ug/L	ND	2000	2000	1860	1840	93	92	60-140	1				
Tetrachloroethene	ug/L	ND	2000	2000	2250	2260	113	113	60-140	0				
Toluene	ug/L	10600	2000	2000	11700	11700	56	54	60-140	0	M1			
trans-1,2-Dichloroethene	ug/L	ND	2000	2000	2060	2090	103	105	60-140	2				
trans-1,3-Dichloropropene	ug/L	ND	2000	2000	2070	2080	104	104	60-140	0				
Trichloroethene	ug/L	ND	2000	2000	2230	2280	112	114	60-140	2				
Trichlorofluoromethane	ug/L	ND	2000	2000	2600	2640	130	132	60-140	1				
Vinyl chloride	ug/L	ND	2000	2000	2040	2100	102	105	60-140	3				
1,2-Dichloroethane-d4 (S)	%						97	97	70-130					
4-Bromofluorobenzene (S)	%						98	99	70-130					
Toluene-d8 (S)	%						99	99	70-130					

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## QUALIFIERS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

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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.

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527474

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527474001	MW-08	MADEP VPH	606584		
92527474002	MW-13	MADEP VPH	606584		
92527474003	MW-14	MADEP VPH	606584		
92527474004	MW-44	MADEP VPH	606584		
92527474005	MW-45	MADEP VPH	606584		
92527474006	MW-46	MADEP VPH	606584		
92527474007	MW-49	MADEP VPH	606584		
92527474008	MW-50	MADEP VPH	606592		
92527474009	MW-51	MADEP VPH	606584		
92527474010	MW-62	MADEP VPH	606584		
92527474011	MW-76	MADEP VPH	606584		
92527474012	DUP-1-20210312	MADEP VPH	606584		
92527474001	MW-08	EPA 3010A	607049	EPA 6010D	607079
92527474002	MW-13	EPA 3010A	607049	EPA 6010D	607079
92527474003	MW-14	EPA 3010A	607049	EPA 6010D	607079
92527474004	MW-44	EPA 3010A	607049	EPA 6010D	607079
92527474005	MW-45	EPA 3010A	607049	EPA 6010D	607079
92527474006	MW-46	EPA 3010A	607049	EPA 6010D	607079
92527474007	MW-49	EPA 3010A	607049	EPA 6010D	607079
92527474008	MW-50	EPA 3010A	607049	EPA 6010D	607079
92527474009	MW-51	EPA 3010A	607049	EPA 6010D	607079
92527474010	MW-62	EPA 3010A	607049	EPA 6010D	607079
92527474011	MW-76	EPA 3010A	607049	EPA 6010D	607079
92527474012	DUP-1-20210312	EPA 3010A	607049	EPA 6010D	607079
92527474001	MW-08	SM 6200B	606549		
92527474002	MW-13	SM 6200B	607283		
92527474003	MW-14	SM 6200B	606549		
92527474004	MW-44	SM 6200B	606549		
92527474005	MW-45	SM 6200B	606549		
92527474006	MW-46	SM 6200B	606549		
92527474007	MW-49	SM 6200B	606549		
92527474008	MW-50	SM 6200B	607283		
92527474009	MW-51	SM 6200B	606549		
92527474010	MW-62	SM 6200B	606549		
92527474011	MW-76	SM 6200B	606549		
92527474012	DUP-1-20210312	SM 6200B	606968		
92527474013	Trip Blank	SM 6200B	606968		
92527474014	Trip Blank	SM 6200B	606968		

### REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM**

Address: **6080 Fairview Rd, Suite 200  
Charlotte, NC 28210**

Report To: **Andy Wreschinsky**

Copy To: **Andrew.wreschinsky@aecom.com**

Customer Project Name/Number: **Colonial Pipeline**

Phone: \_\_\_\_\_

Collected By (print): \_\_\_\_\_

Collected By (signature): \_\_\_\_\_

Sample Disposal:

Dispose as appropriate |  Return  
 Archive: \_\_\_\_\_  
 Hold: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
WW-08	WT	G			3/12/21	1020		8
WW-13						1040		
WW-14						0835		
WW-44						1155		
WW-45						1040		
WW-46						1230		
WW-49						1215		
WW-50						0910		
WW-51						0900		
WW-62						1056		

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: b. bags  
 Radchem sample(s) screened (<500 cpm): Y N NA

Lab Tracking #: 2619010  
 Lab Tracking #:  
 Samples received via: FEDEX UPS Client Courier Pace Courier  
 Date/Time: 3/12/21 1408

Lab Sample Temperature Info:  
 Temp Blank Received: Y NA  
 Therm ID#: TR27064  
 Cooler 1 Temp Upon Receipt: 4.3 oc  
 Cooler 1 Therm Corr. Factor: 40 oc  
 Cooler 1 Corrected Temp: 4.3 oc  
 Comments:

LAB USE ONLY  
**W0# : 92527474**  
 Container Preservation Type: 3 3 1  
 92527474

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other \_\_\_\_\_

Lab Profile/line: \_\_\_\_\_

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y  NA  
 Custody Signatures Present Y  NA  
 Collector Signature Present Y  NA  
 Bottles Intact Y  NA  
 Correct Bottles Y  NA  
 Sufficient Volume Y  NA  
 VOA - Headspace Acceptable Y  NA  
 USA Regulated Soils Y  NA  
 Samples in Holding Time Y  NA  
 Residual Chlorine Present Y  NA  
 Cl Strips: Y  NA  
 Sample pH Acceptable Y  NA  
 pH Strips: 23814V Y  NA  
 Sulfide Present Y  NA  
 Lead Acetate Strips: Y  NA

LAB USE ONLY:  
 Lab Sample # / Comments: 91827474

Relinquished by/Company: (Signature) Timothy D. Ford/AECOM Date/Time: 3/12/21 Received by/Company: (Signature) VSPAE HWL  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_

Trip Blank Received:  MeOH  TSP  Other  
 Non Conformance(s): YES / (NO) Page 1 of 2

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **AECOM**

Address: **4000 Parkway Dr Suite 200  
Charlotte, NC 28210**

Report To: **Andy Wreschnig**

Copy To: **Andrew Wreschnig & aecom.com**

Customer Project Name/Number: **Colonial Pipeline**

State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No

Phone: [ ] Yes [ ] No

Collected By (print): **Andy Wreschnig**

Quote #: **1**

Collected By (signature): **Andy Wreschnig**

Turnaround Date Required: **1**

Sample Disposal: [ ] Dispose as appropriate [ ] Return

[ ] Archive: [ ] Hold: [ ] Expedite Charges Apply

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: **6200**

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: **MMW-Flu**

Matrix \* **WT**

Comp / Grab **G**

Collected (or Composite Start) Date: **3/12/21**

Composite End Date: **3/12/21**

Res CI **1**

# of Ctns **1**

Type of Ice Used: **Wet** Blue Dry None

Packing Material Used: **b. bags**

Radchem sample(s) screened (<5000 cpm): **Y** N NA

Relinquished by/Company: (Signature) **Yemilyp-Joval AECOM**

Date/Time: **3/12/21**

LAB USE ONLY  
**W0# : 92527474**  
PM: **MMG** Due Date: **03/19/21**  
CLIENT: **92-AECOM CHA**

Container Pre:

3	3	1					
---	---	---	--	--	--	--	--

Analyses: **6200 VPH 1010 Lead**

Lab Profile/Line: **92827474**

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	NA
Custody Signatures Present	Y	NA
Collector Signature Present	Y	NA
Bottles Intact	Y	NA
Correct Bottles	Y	NA
Sufficient Volume	Y	NA
Samples Received on Ice	Y	NA
VOA - Headspace Acceptable	Y	NA
USDA Regulated Soils	Y	NA
Samples in Holding Time	Y	NA
Residual Chlorine Present	Y	NA
Cl Strips:	Y	NA
Sample pH Acceptable	Y	NA
pH Strips:	Y	NA
Sulfide Present	Y	NA
Lead Acetate Strips:	Y	NA

LAB USE ONLY:  
Lab Sample # / Comments: **92827474**

Temp Blank Received: **Y** NA  
Therm ID#: **SR22041**  
Cooler 1 Temp Upon Receipt: **4.30c** 5.0  
Cooler 1 Therm Corr Factor: **+0.0c**  
Cooler 1 Corrected Temp: **4.30c** 5.0

Lab Tracking #: **2619007**

Samples received via: **Client** FEDEX UPS Courier Pace Courier

Date/Time: **3/12/21 1408**

Relinquished by/Company: (Signature) **VS PAE HM**

March 18, 2021

Andrew Wreschnig  
AECOM  
6000 Fairview Road  
Suite 200  
Charlotte, NC 28210

RE: Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527475

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

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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  
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 ANALYTE COUNT

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527475001	MW-04	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527475002	MW-15	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527475003	MW-43	MADEP VPH	LMB	6	PASI-C
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92527475004	FB-1-20210312	MADEP VPH	LMB	6	PASI-C
		SM 6200B	SAS	63	PASI-C
		SM 6200B	SAS	63	PASI-C
92527475005	Trip Blank	SM 6200B	SAS	63	PASI-C

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Sample: MW-04	Lab ID: 92527475001	Collected: 03/12/21 09:20	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 21:36		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 21:36		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 21:36		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 21:36		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	103	%	70-130	1		03/15/21 21:36	460-00-4	
4-Bromofluorobenzene (PID) (S)	100	%	70-130	1		03/15/21 21:36	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	5.7	ug/L	5.0	1	03/17/21 01:53	03/17/21 22:22	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/17/21 07:29	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/17/21 07:29	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/17/21 07:29	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/17/21 07:29	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/17/21 07:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/17/21 07:29	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/17/21 07:29	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/17/21 07:29	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/17/21 07:29	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/17/21 07:29	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/17/21 07:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/21 07:29	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/17/21 07:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/21 07:29	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 07:29	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 07:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/17/21 07:29	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/17/21 07:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/17/21 07:29	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/17/21 07:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 07:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 07:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 07:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/17/21 07:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/17/21 07:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/17/21 07:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/17/21 07:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 07:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 07:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 07:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/17/21 07:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 07:29	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Sample: MW-04	Lab ID: 92527475001	Collected: 03/12/21 09:20	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/17/21 07:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 07:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 07:29	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/17/21 07:29	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/17/21 07:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/17/21 07:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/17/21 07:29	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/17/21 07:29	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/17/21 07:29	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/17/21 07:29	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/17/21 07:29	103-65-1	
Styrene	ND	ug/L	0.50	1		03/17/21 07:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 07:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 07:29	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/17/21 07:29	127-18-4	
Toluene	ND	ug/L	0.50	1		03/17/21 07:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 07:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 07:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/17/21 07:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/17/21 07:29	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/17/21 07:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/21 07:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/17/21 07:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 07:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 07:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/21 07:29	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/17/21 07:29	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/17/21 07:29	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/17/21 07:29	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/17/21 07:29	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		03/17/21 07:29	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Sample: MW-15	Lab ID: 92527475002	Collected: 03/12/21 11:40	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 22:04		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 22:04		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 22:04		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 22:04		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	102	%	70-130	1		03/15/21 22:04	460-00-4	
4-Bromofluorobenzene (PID) (S)	98	%	70-130	1		03/15/21 22:04	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	<b>5.3</b>	ug/L	5.0	1	03/17/21 01:53	03/17/21 22:25	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/17/21 07:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/17/21 07:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/17/21 07:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/17/21 07:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/17/21 07:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/17/21 07:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/17/21 07:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/17/21 07:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/17/21 07:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/17/21 07:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/17/21 07:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/21 07:47	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/17/21 07:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/21 07:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 07:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 07:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/17/21 07:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/17/21 07:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/17/21 07:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/17/21 07:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 07:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 07:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 07:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/17/21 07:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/17/21 07:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/17/21 07:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/17/21 07:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 07:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 07:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 07:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/17/21 07:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 07:47	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Sample: MW-15	Lab ID: 92527475002	Collected: 03/12/21 11:40	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/17/21 07:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 07:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 07:47	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/17/21 07:47	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/17/21 07:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/17/21 07:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/17/21 07:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/17/21 07:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/17/21 07:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/17/21 07:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/17/21 07:47	103-65-1	
Styrene	ND	ug/L	0.50	1		03/17/21 07:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 07:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 07:47	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/17/21 07:47	127-18-4	
Toluene	ND	ug/L	0.50	1		03/17/21 07:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 07:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 07:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/17/21 07:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/17/21 07:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/17/21 07:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/21 07:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/17/21 07:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 07:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 07:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/21 07:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/17/21 07:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/17/21 07:47	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/17/21 07:47	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/17/21 07:47	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/17/21 07:47	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Sample: MW-43	Lab ID: 92527475003	Collected: 03/12/21 12:25	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>								
Analytical Method: MADEP VPH								
Pace Analytical Services - Charlotte								
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/15/21 22:33		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/15/21 22:33		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/15/21 22:33		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/15/21 22:33		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	103	%	70-130	1		03/15/21 22:33	460-00-4	
4-Bromofluorobenzene (PID) (S)	100	%	70-130	1		03/15/21 22:33	460-00-4	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	03/17/21 01:53	03/17/21 22:29	7439-92-1	
<b>6200B MSV</b>								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		03/17/21 08:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/17/21 08:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/17/21 08:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/17/21 08:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/17/21 08:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/17/21 08:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/17/21 08:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/17/21 08:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/17/21 08:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/17/21 08:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/17/21 08:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/21 08:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/17/21 08:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/21 08:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 08:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 08:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/17/21 08:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/17/21 08:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/17/21 08:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/17/21 08:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 08:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 08:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 08:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/17/21 08:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/17/21 08:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/17/21 08:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/17/21 08:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 08:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 08:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 08:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/17/21 08:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 08:05	594-20-7	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Sample: MW-43	Lab ID: 92527475003	Collected: 03/12/21 12:25	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		03/17/21 08:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 08:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 08:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/17/21 08:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/17/21 08:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/17/21 08:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/17/21 08:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/17/21 08:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/17/21 08:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/17/21 08:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/17/21 08:05	103-65-1	
Styrene	ND	ug/L	0.50	1		03/17/21 08:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 08:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 08:05	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/17/21 08:05	127-18-4	
Toluene	ND	ug/L	0.50	1		03/17/21 08:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 08:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 08:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/17/21 08:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/17/21 08:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/17/21 08:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/21 08:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/17/21 08:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 08:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 08:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/21 08:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/17/21 08:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/17/21 08:05	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/17/21 08:05	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		03/17/21 08:05	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/17/21 08:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Sample: <b>FB-1-20210312</b>	Lab ID: <b>92527475004</b>	Collected: 03/12/21 11:55	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>VPH NC Water</b>		Analytical Method: MADEP VPH Pace Analytical Services - Charlotte						
Aliphatic (C05-C08)	ND	ug/L	50.0	1		03/17/21 15:47		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		03/17/21 15:47		N2
Aliphatic(C09-C12) Adjusted	ND	ug/L	50.0	1		03/17/21 15:47		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		03/17/21 15:47		N2
<b>Surrogates</b>								
4-Bromofluorobenzene (FID) (S)	108	%	70-130	1		03/17/21 15:47	460-00-4	
4-Bromofluorobenzene (PID) (S)	104	%	70-130	1		03/17/21 15:47	460-00-4	
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/17/21 03:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/17/21 03:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/17/21 03:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/17/21 03:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/17/21 03:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/17/21 03:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/17/21 03:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/17/21 03:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/21 03:19	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/17/21 03:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/21 03:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 03:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 03:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/17/21 03:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/17/21 03:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/17/21 03:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/17/21 03:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/17/21 03:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/17/21 03:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/17/21 03:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:19	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/17/21 03:19	108-20-3	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Sample: <b>FB-1-20210312</b>	Lab ID: <b>92527475004</b>	Collected: 03/12/21 11:55	Received: 03/12/21 14:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Ethylbenzene	ND	ug/L	0.50	1		03/17/21 03:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/17/21 03:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/17/21 03:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/17/21 03:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/17/21 03:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/17/21 03:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/17/21 03:19	103-65-1	
Styrene	ND	ug/L	0.50	1		03/17/21 03:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 03:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 03:19	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		03/17/21 03:19	127-18-4	
Toluene	ND	ug/L	0.50	1		03/17/21 03:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 03:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 03:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/17/21 03:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/17/21 03:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/17/21 03:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/21 03:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/17/21 03:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 03:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 03:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/21 03:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/17/21 03:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/17/21 03:19	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/17/21 03:19	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/17/21 03:19	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/17/21 03:19	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Sample: Trip Blank		Lab ID: 92527475005	Collected: 03/12/21 00:00	Received: 03/12/21 14:08	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		03/17/21 03:36	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		03/17/21 03:36	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		03/17/21 03:36	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		03/17/21 03:36	75-27-4	
Bromoform	ND	ug/L	0.50	1		03/17/21 03:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/17/21 03:36	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:36	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:36	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		03/17/21 03:36	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		03/17/21 03:36	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		03/17/21 03:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/21 03:36	75-00-3	
Chloroform	ND	ug/L	0.50	1		03/17/21 03:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/21 03:36	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 03:36	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		03/17/21 03:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		03/17/21 03:36	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		03/17/21 03:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/17/21 03:36	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		03/17/21 03:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		03/17/21 03:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		03/17/21 03:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		03/17/21 03:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/17/21 03:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		03/17/21 03:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		03/17/21 03:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		03/17/21 03:36	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		03/17/21 03:36	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/17/21 03:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/17/21 03:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		03/17/21 03:36	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		03/17/21 03:36	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/17/21 03:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		03/17/21 03:36	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		03/17/21 03:36	103-65-1	
Styrene	ND	ug/L	0.50	1		03/17/21 03:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 03:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		03/17/21 03:36	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527475

Sample: Trip Blank		Lab ID: 92527475005	Collected: 03/12/21 00:00	Received: 03/12/21 14:08	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		03/17/21 03:36	127-18-4	
Toluene	ND	ug/L	0.50	1		03/17/21 03:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 03:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		03/17/21 03:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		03/17/21 03:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		03/17/21 03:36	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		03/17/21 03:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/21 03:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		03/17/21 03:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 03:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		03/17/21 03:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/21 03:36	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		03/17/21 03:36	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		03/17/21 03:36	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/17/21 03:36	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/17/21 03:36	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		03/17/21 03:36	2037-26-5	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527475

QC Batch: 606584      Analysis Method: MADEP VPH  
QC Batch Method: MADEP VPH      Analysis Description: VPH NC Water  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92527475001, 92527475002, 92527475003

METHOD BLANK: 3195792      Matrix: Water  
Associated Lab Samples: 92527475001, 92527475002, 92527475003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/15/21 13:58	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/15/21 13:58	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/15/21 13:58	N2
4-Bromofluorobenzene (FID) (S)	%	104	70-130	03/15/21 13:58	
4-Bromofluorobenzene (PID) (S)	%	101	70-130	03/15/21 13:58	

Parameter	Units	3195793		3195794			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Aliphatic (C05-C08)	ug/L	300	338	333	113	111	70-130	1	25	N2
Aliphatic (C09-C12)	ug/L	300	331	319	110	106	70-130	4	25	N2
Aromatic (C09-C10)	ug/L	100	99.4	95.8	99	96	70-130	4	25	N2
4-Bromofluorobenzene (FID) (S)	%				103	101	70-130			
4-Bromofluorobenzene (PID) (S)	%				99	98	70-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

QC Batch: 606592	Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH	Analysis Description: VPH NC Water
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92527475004

METHOD BLANK: 3195851 Matrix: Water

Associated Lab Samples: 92527475004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	03/17/21 14:50	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	03/17/21 14:50	N2
Aromatic (C09-C10)	ug/L	ND	50.0	03/17/21 14:50	N2
4-Bromofluorobenzene (FID) (S)	%	106	70-130	03/17/21 14:50	
4-Bromofluorobenzene (PID) (S)	%	101	70-130	03/17/21 14:50	

LABORATORY CONTROL SAMPLE & LCSD: 3195852

3195853

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	365	356	122	119	70-130	2	25	N2
Aliphatic (C09-C12)	ug/L	300	344	343	115	114	70-130	0	25	N2
Aromatic (C09-C10)	ug/L	100	100	99.7	100	100	70-130	1	25	N2
4-Bromofluorobenzene (FID) (S)	%				111	108	70-130			
4-Bromofluorobenzene (PID) (S)	%				105	101	70-130			

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527475

QC Batch: 607049      Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A      Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92527475001, 92527475002, 92527475003

METHOD BLANK: 3198343      Matrix: Water  
Associated Lab Samples: 92527475001, 92527475002, 92527475003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/17/21 20:55	

LABORATORY CONTROL SAMPLE: 3198344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198345      3198346

Parameter	Units	92527327015		3198346		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	477	493	95	98	75-125	3

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527475

QC Batch: 606968 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92527475001, 92527475002, 92527475003, 92527475004, 92527475005

METHOD BLANK: 3197877 Matrix: Water  
Associated Lab Samples: 92527475001, 92527475002, 92527475003, 92527475004, 92527475005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1,1-Trichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1,2-Trichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1-Dichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,1-Dichloroethene	ug/L	ND	0.50	03/17/21 00:38	
1,1-Dichloropropene	ug/L	ND	0.50	03/17/21 00:38	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	03/17/21 00:38	
1,2,3-Trichloropropane	ug/L	ND	0.50	03/17/21 00:38	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	03/17/21 00:38	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	03/17/21 00:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dichlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dichloroethane	ug/L	ND	0.50	03/17/21 00:38	
1,2-Dichloropropane	ug/L	ND	0.50	03/17/21 00:38	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	03/17/21 00:38	
1,3-Dichlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
1,3-Dichloropropane	ug/L	ND	0.50	03/17/21 00:38	
1,4-Dichlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
2,2-Dichloropropane	ug/L	ND	0.50	03/17/21 00:38	
2-Chlorotoluene	ug/L	ND	0.50	03/17/21 00:38	
4-Chlorotoluene	ug/L	ND	0.50	03/17/21 00:38	
Benzene	ug/L	ND	0.50	03/17/21 00:38	
Bromobenzene	ug/L	ND	0.50	03/17/21 00:38	
Bromochloromethane	ug/L	ND	0.50	03/17/21 00:38	
Bromodichloromethane	ug/L	ND	0.50	03/17/21 00:38	
Bromoform	ug/L	ND	0.50	03/17/21 00:38	
Bromomethane	ug/L	ND	5.0	03/17/21 00:38	
Carbon tetrachloride	ug/L	ND	0.50	03/17/21 00:38	
Chlorobenzene	ug/L	ND	0.50	03/17/21 00:38	
Chloroethane	ug/L	ND	1.0	03/17/21 00:38	
Chloroform	ug/L	ND	0.50	03/17/21 00:38	
Chloromethane	ug/L	ND	1.0	03/17/21 00:38	
cis-1,2-Dichloroethene	ug/L	ND	0.50	03/17/21 00:38	
cis-1,3-Dichloropropene	ug/L	ND	0.50	03/17/21 00:38	
Dibromochloromethane	ug/L	ND	0.50	03/17/21 00:38	
Dibromomethane	ug/L	ND	0.50	03/17/21 00:38	
Dichlorodifluoromethane	ug/L	ND	0.50	03/17/21 00:38	
Diisopropyl ether	ug/L	ND	0.50	03/17/21 00:38	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527475

METHOD BLANK: 3197877 Matrix: Water  
Associated Lab Samples: 92527475001, 92527475002, 92527475003, 92527475004, 92527475005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	03/17/21 00:38	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	03/17/21 00:38	
m&p-Xylene	ug/L	ND	1.0	03/17/21 00:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/17/21 00:38	
Methylene Chloride	ug/L	ND	2.0	03/17/21 00:38	
n-Butylbenzene	ug/L	ND	0.50	03/17/21 00:38	
n-Propylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Naphthalene	ug/L	ND	2.0	03/17/21 00:38	
o-Xylene	ug/L	ND	0.50	03/17/21 00:38	
sec-Butylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Styrene	ug/L	ND	0.50	03/17/21 00:38	
tert-Butylbenzene	ug/L	ND	0.50	03/17/21 00:38	
Tetrachloroethene	ug/L	ND	0.50	03/17/21 00:38	
Toluene	ug/L	ND	0.50	03/17/21 00:38	
trans-1,2-Dichloroethene	ug/L	ND	0.50	03/17/21 00:38	
trans-1,3-Dichloropropene	ug/L	ND	0.50	03/17/21 00:38	
Trichloroethene	ug/L	ND	0.50	03/17/21 00:38	
Trichlorofluoromethane	ug/L	ND	1.0	03/17/21 00:38	
Vinyl chloride	ug/L	ND	1.0	03/17/21 00:38	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/17/21 00:38	
4-Bromofluorobenzene (S)	%	102	70-130	03/17/21 00:38	
Toluene-d8 (S)	%	100	70-130	03/17/21 00:38	

LABORATORY CONTROL SAMPLE: 3197878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,1-Trichloroethane	ug/L	50	49.8	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.3	107	60-140	
1,1,2-Trichloroethane	ug/L	50	53.9	108	60-140	
1,1-Dichloroethane	ug/L	50	49.1	98	60-140	
1,1-Dichloroethene	ug/L	50	50.9	102	60-140	
1,1-Dichloropropene	ug/L	50	50.7	101	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.4	105	60-140	
1,2,3-Trichloropropane	ug/L	50	52.0	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.2	100	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.1	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	60-140	
1,2-Dichlorobenzene	ug/L	50	49.8	100	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	49.7	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527475

LABORATORY CONTROL SAMPLE: 3197878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	52.1	104	60-140	
1,4-Dichlorobenzene	ug/L	50	48.1	96	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	48.9	98	60-140	
4-Chlorotoluene	ug/L	50	48.5	97	60-140	
Benzene	ug/L	50	50.0	100	60-140	
Bromobenzene	ug/L	50	48.1	96	60-140	
Bromochloromethane	ug/L	50	51.9	104	60-140	
Bromodichloromethane	ug/L	50	51.4	103	60-140	
Bromoform	ug/L	50	45.1	90	60-140	
Bromomethane	ug/L	50	44.5	89	60-140	
Carbon tetrachloride	ug/L	50	52.5	105	60-140	
Chlorobenzene	ug/L	50	50.2	100	60-140	
Chloroethane	ug/L	50	43.4	87	60-140	
Chloroform	ug/L	50	49.5	99	60-140	
Chloromethane	ug/L	50	37.9	76	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.7	93	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.9	110	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	53.2	106	60-140	
Dichlorodifluoromethane	ug/L	50	42.4	85	60-140	
Diisopropyl ether	ug/L	50	46.7	93	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.9	106	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.8	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	51.0	102	60-140	
Methylene Chloride	ug/L	50	44.4	89	60-140	
n-Butylbenzene	ug/L	50	54.1	108	60-140	
n-Propylbenzene	ug/L	50	48.1	96	60-140	
Naphthalene	ug/L	50	50.9	102	60-140	
o-Xylene	ug/L	50	51.4	103	60-140	
sec-Butylbenzene	ug/L	50	49.9	100	60-140	
Styrene	ug/L	50	50.7	101	60-140	
tert-Butylbenzene	ug/L	50	40.6	81	60-140	
Tetrachloroethene	ug/L	50	51.2	102	60-140	
Toluene	ug/L	50	49.9	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.2	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	60-140	
Trichloroethene	ug/L	50	50.4	101	60-140	
Trichlorofluoromethane	ug/L	50	45.1	90	60-140	
Vinyl chloride	ug/L	50	42.0	84	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

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### QUALITY CONTROL DATA

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527475

Parameter	92527425002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	100	100	115	111	115	111	60-140	3				
1,1,1-Trichloroethane	ug/L	ND	100	100	113	106	113	106	60-140	6				
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	115	117	115	117	60-140	1				
1,1,2-Trichloroethane	ug/L	ND	100	100	116	119	116	119	60-140	2				
1,1-Dichloroethane	ug/L	ND	100	100	112	108	112	108	60-140	4				
1,1-Dichloroethene	ug/L	ND	100	100	120	110	120	110	60-140	9				
1,1-Dichloropropene	ug/L	ND	100	100	116	109	116	109	60-140	7				
1,2,3-Trichlorobenzene	ug/L	ND	100	100	102	106	102	106	60-140	4				
1,2,3-Trichloropropane	ug/L	ND	100	100	116	118	116	118	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	100	100	116	115	116	115	60-140	1				
1,2,4-Trimethylbenzene	ug/L	234	100	100	367	348	133	114	60-140	5				
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	106	109	106	109	60-140	2				
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	120	119	120	119	60-140	0				
1,2-Dichlorobenzene	ug/L	ND	100	100	112	103	112	103	60-140	8				
1,2-Dichloroethane	ug/L	ND	100	100	112	110	112	110	60-140	2				
1,2-Dichloropropane	ug/L	ND	100	100	113	113	113	113	60-140	0				
1,3,5-Trimethylbenzene	ug/L	ND	100	100	159	153	159	153	60-140	4	M1			
1,3-Dichlorobenzene	ug/L	ND	100	100	111	107	111	107	60-140	4				
1,3-Dichloropropane	ug/L	ND	100	100	116	116	116	116	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	100	100	109	103	109	103	60-140	5				
2,2-Dichloropropane	ug/L	ND	100	100	94.0	87.0	94	87	60-140	8				
2-Chlorotoluene	ug/L	ND	100	100	121	116	121	116	60-140	4				
4-Chlorotoluene	ug/L	ND	100	100	111	105	111	105	60-140	5				
Benzene	ug/L	180	100	100	302	291	122	111	60-140	4				
Bromobenzene	ug/L	ND	100	100	106	105	106	105	60-140	2				
Bromochloromethane	ug/L	ND	100	100	115	113	115	113	60-140	1				
Bromodichloromethane	ug/L	ND	100	100	113	111	113	111	60-140	2				
Bromoform	ug/L	ND	100	100	94.4	95.6	94	96	60-140	1				
Bromomethane	ug/L	ND	100	100	109	95.5	109	95	60-140	14				
Carbon tetrachloride	ug/L	ND	100	100	123	114	123	114	60-140	7				
Chlorobenzene	ug/L	ND	100	100	118	115	118	115	60-140	2				
Chloroethane	ug/L	ND	100	100	116	109	116	109	60-140	6				
Chloroform	ug/L	ND	100	100	112	106	112	106	60-140	6				
Chloromethane	ug/L	ND	100	100	80.7	80.0	81	80	60-140	1				
cis-1,2-Dichloroethene	ug/L	ND	100	100	107	104	107	104	60-140	3				
cis-1,3-Dichloropropene	ug/L	ND	100	100	111	108	111	108	60-140	3				
Dibromochloromethane	ug/L	ND	100	100	116	117	116	117	60-140	1				
Dibromomethane	ug/L	ND	100	100	113	115	113	115	60-140	2				
Dichlorodifluoromethane	ug/L	ND	100	100	93.8	89.0	94	89	60-140	5				
Diisopropyl ether	ug/L	ND	100	100	101	101	101	101	60-140	1				
Ethylbenzene	ug/L	853	100	100	1010	977	157	124	60-140	3	E			
Hexachloro-1,3-butadiene	ug/L	ND	100	100	109	109	109	109	60-140	0				
Isopropylbenzene (Cumene)	ug/L	76.6	100	100	199	193	123	117	60-140	3				
m&p-Xylene	ug/L	541	200	200	794	773	126	116	60-140	3				
Methyl-tert-butyl ether	ug/L	ND	100	100	105	103	105	103	60-140	2				
Methylene Chloride	ug/L	ND	100	100	104	101	104	101	60-140	3				

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: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

Parameter	92527425002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	100	100	133	135	133	135	60-140	1				
n-Propylbenzene	ug/L	193	100	100	316	300	123	107	60-140	5				
Naphthalene	ug/L	280	100	100	396	397	116	116	60-140	0				
o-Xylene	ug/L	60.8	100	100	174	169	113	109	60-140	3				
sec-Butylbenzene	ug/L	ND	100	100	123	120	123	120	60-140	2				
Styrene	ug/L	ND	100	100	114	111	114	111	60-140	3				
tert-Butylbenzene	ug/L	ND	100	100	94.5	90.0	94	90	60-140	5				
Tetrachloroethene	ug/L	ND	100	100	115	115	115	115	60-140	0				
Toluene	ug/L	70.7	100	100	187	178	116	108	60-140	5				
trans-1,2-Dichloroethene	ug/L	ND	100	100	109	104	109	104	60-140	5				
trans-1,3-Dichloropropene	ug/L	ND	100	100	105	105	105	105	60-140	1				
Trichloroethene	ug/L	ND	100	100	116	114	116	114	60-140	2				
Trichlorofluoromethane	ug/L	ND	100	100	110	103	110	103	60-140	6				
Vinyl chloride	ug/L	ND	100	100	96.6	92.4	97	92	60-140	4				
1,2-Dichloroethane-d4 (S)	%						99	94	70-130					
4-Bromofluorobenzene (S)	%						99	101	70-130					
Toluene-d8 (S)	%						98	99	70-130					

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: Colonial Pipeline (3/12/21)

Pace Project No.: 92527475

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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.

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (3/12/21)  
Pace Project No.: 92527475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527475001	MW-04	MADEP VPH	606584		
92527475002	MW-15	MADEP VPH	606584		
92527475003	MW-43	MADEP VPH	606584		
92527475004	FB-1-20210312	MADEP VPH	606592		
92527475001	MW-04	EPA 3010A	607049	EPA 6010D	607079
92527475002	MW-15	EPA 3010A	607049	EPA 6010D	607079
92527475003	MW-43	EPA 3010A	607049	EPA 6010D	607079
92527475001	MW-04	SM 6200B	606968		
92527475002	MW-15	SM 6200B	606968		
92527475003	MW-43	SM 6200B	606968		
92527475004	FB-1-20210312	SM 6200B	606968		
92527475005	Trip Blank	SM 6200B	606968		

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**CHAIN-OF-CUSTODY Analytical Request Document**  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USI **WO# : 92527475**  
Contain 3 3 1

Company: **AECOM**  
Address: **6000 Fairview Rd, Suite 200 Charlotte NC 28210**  
Report To: **Andy Wreschnig**  
Copy To: **Andy Wreschnig**  
Email To: **awreschnig@aecom.com**  
Site Collection Info/Address: **awreschnig@aecom.com**

Customer Project Name/Number: **Colonia Pipeline**  
State: **/** County/City: **/** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**  
Phone: **/** Site/Facility ID #: **/** Compliance Monitoring? **[ ] Yes [ ] No**  
Email: **/** Purchase Order #: **/** DW PWS ID #: **/** DW Location Code: **/**  
Collected By (print): **/** Quote #: **/** Turnaround Date Required: **/** Immediately Packed on Ice: **[ ] Yes [ ] No**  
Collected By (signature): **/** Rush: **[ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day** (Expedite Charges Apply) Analysis: **/**  
Sample Disposal: **[ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold**

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Spill/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
MW-04	WT	G	3/12/21	0920		8
MW-15	I	I	1140			1
MW-43	I	I	1225			1
FB-1-20210312	I	I	1155			7
Trip Blank	I	I	Lab Provided			

Customer Remarks / Special Conditions / Possible Hazards: **SHORT HOLDS PRESENT (<72 hours): Y (N) N/A**

Type of Ice Used: **(Wet) Blue Dry None**  
Packing Material Used: **b. bags**  
Raddchem sample(s) screened (<500 cpm): **Y N (NA)**  
Date/Time: **3/12/21** Received by/Company: **(Signature) VS PAEHL**  
Date/Time: **3/12/21** Received by/Company: **(Signature)**  
Date/Time: **3/12/21** Received by/Company: **(Signature)**

Lab Profile/Line:

Lab Sample Receipt Checklist:	Y (N) NA
Custody Seals Present/Intact	Y (N) NA
Custody Signatures Present	Y (N) NA
Collector Signatures Present	Y (N) NA
Bottles Intact	Y (N) NA
Correct Bottles	Y (N) NA
Sufficient Volume	Y (N) NA
Samples Received on Ice	Y (N) NA
VOA - Headspace Acceptable	Y (N) NA
USDA Regulated Soils	Y (N) NA
Samples in Holding Time	Y (N) NA
Residual Chlorine Present	Y (N) NA
Cl Strips:	Y (N) NA
Sample pH Acceptable	Y (N) NA
pH Strips:	Y (N) NA
Sulfide Present	Y (N) NA
Lead Acetate Strips:	Y (N) NA

Analyses

Lab Sample # / Comments:	Y	N	NA
LAB USE ONLY:			
92527475			
001			
002			
003			
004			

Lab Sample Temperature Info:  
Temp Blank Received: **Y (N) NA**  
Therm ID#: **11927064**  
Cooler 1 Temp Upon Receipt: **48.0** oC  
Cooler 1 Therm Corr. Factor: **4.0** oC  
Cooler 1 Corrected Temp: **44.0** oC  
Comments:

Lab Tracking #: **2619009**  
Samples received via: **FEDEX UPS Client** Courier: **MTUL LAB USE ONLY**  
Date/Time: **3/12/21 1408**  
Date/Time: **3/12/21**  
Date/Time: **3/12/21**

December 07, 2020

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-LI-2448  
Pace Project No.: 92506486

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

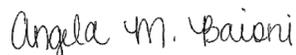
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet

A revised report is being submitted on 12/7/2020 to correct a sample ID entry error for sample 92506486019. This was inadvertently made during sample log in.

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Emily Little, Apex Companies  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS

Christopher Schultz, Apex Companies  
Alex Testoff, Montrose-EPS  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-LI-2448  
Pace Project No.: 92506486

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2020-LI-2448  
Pace Project No.: 92506486

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92506486001	0-W	Solid	11/15/20 10:55	11/17/20 12:40
92506486002	0-B	Solid	11/15/20 11:10	11/17/20 12:40
92506486003	0-E	Solid	11/15/20 11:25	11/17/20 12:40
92506486004	25-W	Solid	11/15/20 14:40	11/17/20 12:40
92506486005	25-B	Solid	11/15/20 14:55	11/17/20 12:40
92506486006	25-E	Solid	11/15/20 15:05	11/17/20 12:40
92506486007	50-W	Solid	11/15/20 15:20	11/17/20 12:40
92506486008	50-B	Solid	11/15/20 15:30	11/17/20 12:40
92506486009	50-E	Solid	11/15/20 16:50	11/17/20 12:40
92506486010	75-W	Solid	11/16/20 13:10	11/17/20 12:40
92506486011	75-B	Solid	11/16/20 13:19	11/17/20 12:40
92506486012	75-E	Solid	11/16/20 13:23	11/17/20 12:40
92506486013	100-W	Solid	11/16/20 14:12	11/17/20 12:40
92506486014	100-B	Solid	11/16/20 13:51	11/17/20 12:40
92506486015	100-E	Solid	11/16/20 13:30	11/17/20 12:40
92506486016	125-W	Solid	11/16/20 14:30	11/17/20 12:40
92506486017	125-B	Solid	11/16/20 14:21	11/17/20 12:40
92506486018	125-E	Solid	11/16/20 13:40	11/17/20 12:40
92506486019	150-E	Solid	11/16/20 16:40	11/17/20 12:40
92506486020	175-E	Solid	11/16/20 16:50	11/17/20 12:40
92506486021	150-W	Solid	11/16/20 15:40	11/17/20 12:40
92506486022	150-B	Solid	11/16/20 16:00	11/17/20 12:40
92506486023	175-W	Solid	11/16/20 16:15	11/17/20 12:40
92506486024	175-B	Solid	11/16/20 16:20	11/17/20 12:40

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### SAMPLE ANALYTE COUNT

Project: 2020-LI-2448  
Pace Project No.: 92506486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506486001	0-W	MADEP VPH	ACG	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506486002	0-B	MADEP VPH	ACG	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506486003	0-E	MADEP VPH	ACG	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506486004	25-W	MADEP VPH	ACG	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506486005	25-B	MADEP VPH	ACG	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506486006	25-E	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	JAV	1	PAN
92506486007	50-W	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506486008	50-B	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	JAV	1	PAN
92506486009	50-E	MADEP VPH	ADM	6	PAN
		EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506486010	75-W	MADEP VPH	ADM, BMB	6	PAN
		EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506486011	75-B	MADEP VPH	ADM	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	JAV	1	PAN
92506486012	75-E	MADEP VPH	ADM, BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486013	100-W	MADEP VPH	ADM, BMB	6	PAN

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### SAMPLE ANALYTE COUNT

Project: 2020-LI-2448  
Pace Project No.: 92506486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506486014	100-B	EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	DWR	6	PAN
92506486015	100-E	EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	DWR	6	PAN
92506486016	125-W	EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	DWR	6	PAN
92506486017	125-B	EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	DWR	6	PAN
92506486018	125-E	EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	DWR	6	PAN
92506486019	150-E	EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	DWR	6	PAN
92506486020	175-E	EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	ADM, DWR	6	PAN
92506486021	150-W	EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	DWR	6	PAN
92506486022	150-B	EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	DWR	6	PAN
92506486023	175-W	EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	ADM, DWR	6	PAN
92506486024	175-B	EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KBC	1	PAN
		MADEP VPH	ADM, DWR	6	PAN
		EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KBC	1	PAN

PAN = Pace National - Mt. Juliet

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

**Sample: 0-W**      **Lab ID: 92506486001**      Collected: 11/15/20 10:55      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>3.97J</b>	mg/kg	8.86	2.96	1	11/15/20 10:55	11/23/20 19:11		J
Aliphatic (C09-C12)	<b>&lt;8.86</b>	mg/kg	8.86	2.96	1	11/15/20 10:55	11/23/20 19:11		
Aromatic (C09-C10), Unadjusted	<b>&lt;8.86</b>	mg/kg	8.86	2.96	1	11/15/20 10:55	11/23/20 19:11	TPHC9C10A	
Total VPH	<b>3.97J</b>	mg/kg	8.86	2.96	1	11/15/20 10:55	11/23/20 19:11	VPH	J

**Surrogates**

2,5-Dibromotoluene (FID)	86.3	%	70.0-130		1	11/15/20 10:55	11/23/20 19:11	615-59-8FID	
2,5-Dibromotoluene (PID)	86.1	%	70.0-130		1	11/15/20 10:55	11/23/20 19:11	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<b>&lt;0.0880</b>	mg/kg	0.0880	0.0643	1	11/15/20 10:55	11/23/20 13:52	67-64-1	
Acrylonitrile	<b>&lt;0.0220</b>	mg/kg	0.0220	0.00636	1	11/15/20 10:55	11/23/20 13:52	107-13-1	
Benzene	<b>0.138</b>	mg/kg	0.00176	0.000822	1	11/15/20 10:55	11/23/20 13:52	71-43-2	
Bromobenzene	<b>&lt;0.0220</b>	mg/kg	0.0220	0.00158	1	11/15/20 10:55	11/23/20 13:52	108-86-1	
Bromodichloromethane	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00128	1	11/15/20 10:55	11/23/20 13:52	75-27-4	
Bromoform	<b>&lt;0.0440</b>	mg/kg	0.0440	0.00206	1	11/15/20 10:55	11/23/20 13:52	75-25-2	
Bromomethane	<b>&lt;0.0220</b>	mg/kg	0.0220	0.00347	1	11/15/20 10:55	11/23/20 13:52	74-83-9	
n-Butylbenzene	<b>&lt;0.0220</b>	mg/kg	0.0220	0.00925	1	11/15/20 10:55	11/23/20 13:52	104-51-8	
sec-Butylbenzene	<b>&lt;0.0220</b>	mg/kg	0.0220	0.00507	1	11/15/20 10:55	11/23/20 13:52	135-98-8	
tert-Butylbenzene	<b>&lt;0.00880</b>	mg/kg	0.00880	0.00343	1	11/15/20 10:55	11/23/20 13:52	98-06-6	
Carbon tetrachloride	<b>&lt;0.00880</b>	mg/kg	0.00880	0.00158	1	11/15/20 10:55	11/23/20 13:52	56-23-5	
Chlorobenzene	<b>&lt;0.00440</b>	mg/kg	0.00440	0.000370	1	11/15/20 10:55	11/23/20 13:52	108-90-7	
Dibromochloromethane	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00108	1	11/15/20 10:55	11/23/20 13:52	124-48-1	
Chloroethane	<b>&lt;0.00880</b>	mg/kg	0.00880	0.00299	1	11/15/20 10:55	11/23/20 13:52	75-00-3	
Chloroform	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00181	1	11/15/20 10:55	11/23/20 13:52	67-66-3	
Chloromethane	<b>&lt;0.0220</b>	mg/kg	0.0220	0.00766	1	11/15/20 10:55	11/23/20 13:52	74-87-3	
2-Chlorotoluene	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00152	1	11/15/20 10:55	11/23/20 13:52	95-49-8	
4-Chlorotoluene	<b>&lt;0.00880</b>	mg/kg	0.00880	0.000792	1	11/15/20 10:55	11/23/20 13:52	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0440</b>	mg/kg	0.0440	0.00687	1	11/15/20 10:55	11/23/20 13:52	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00114	1	11/15/20 10:55	11/23/20 13:52	106-93-4	
Dibromomethane	<b>&lt;0.00880</b>	mg/kg	0.00880	0.00132	1	11/15/20 10:55	11/23/20 13:52	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00880</b>	mg/kg	0.00880	0.000748	1	11/15/20 10:55	11/23/20 13:52	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00880</b>	mg/kg	0.00880	0.00106	1	11/15/20 10:55	11/23/20 13:52	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00880</b>	mg/kg	0.00880	0.00123	1	11/15/20 10:55	11/23/20 13:52	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00284	1	11/15/20 10:55	11/23/20 13:52	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00440</b>	mg/kg	0.00440	0.000865	1	11/15/20 10:55	11/23/20 13:52	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00114	1	11/15/20 10:55	11/23/20 13:52	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00107	1	11/15/20 10:55	11/23/20 13:52	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00129	1	11/15/20 10:55	11/23/20 13:52	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00880</b>	mg/kg	0.00880	0.00183	1	11/15/20 10:55	11/23/20 13:52	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00880</b>	mg/kg	0.00880	0.00250	1	11/15/20 10:55	11/23/20 13:52	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00142	1	11/15/20 10:55	11/23/20 13:52	563-58-6	
1,3-Dichloropropane	<b>&lt;0.00880</b>	mg/kg	0.00880	0.000882	1	11/15/20 10:55	11/23/20 13:52	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.00440</b>	mg/kg	0.00440	0.00133	1	11/15/20 10:55	11/23/20 13:52	10061-01-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 0-W Lab ID: 92506486001 Collected: 11/15/20 10:55 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00880	mg/kg	0.00880	0.00201	1	11/15/20 10:55	11/23/20 13:52	10061-02-6	
2,2-Dichloropropane	<0.00440	mg/kg	0.00440	0.00243	1	11/15/20 10:55	11/23/20 13:52	594-20-7	
Diisopropyl ether	0.00525	mg/kg	0.00176	0.000722	1	11/15/20 10:55	11/23/20 13:52	108-20-3	
Ethylbenzene	0.0284	mg/kg	0.00440	0.00130	1	11/15/20 10:55	11/23/20 13:52	100-41-4	
Hexachloro-1,3-butadiene	<0.0440	mg/kg	0.0440	0.0106	1	11/15/20 10:55	11/23/20 13:52	87-68-3	
Isopropylbenzene (Cumene)	0.00161J	mg/kg	0.00440	0.000748	1	11/15/20 10:55	11/23/20 13:52	98-82-8	J
p-Isopropyltoluene	<0.00880	mg/kg	0.00880	0.00449	1	11/15/20 10:55	11/23/20 13:52	99-87-6	
2-Butanone (MEK)	<0.176	mg/kg	0.176	0.112	1	11/15/20 10:55	11/23/20 13:52	78-93-3	
Methylene Chloride	<0.0440	mg/kg	0.0440	0.0117	1	11/15/20 10:55	11/23/20 13:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0440	mg/kg	0.0440	0.00401	1	11/15/20 10:55	11/23/20 13:52	108-10-1	
Methyl-tert-butyl ether	0.000880J	mg/kg	0.00176	0.000616	1	11/15/20 10:55	11/23/20 13:52	1634-04-4	J
Naphthalene	<0.0220	mg/kg	0.0220	0.00859	1	11/15/20 10:55	11/23/20 13:52	91-20-3	C3
n-Propylbenzene	0.00498J	mg/kg	0.00880	0.00167	1	11/15/20 10:55	11/23/20 13:52	103-65-1	J
Styrene	<0.0220	mg/kg	0.0220	0.000403	1	11/15/20 10:55	11/23/20 13:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00440	mg/kg	0.00440	0.00167	1	11/15/20 10:55	11/23/20 13:52	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00440	mg/kg	0.00440	0.00122	1	11/15/20 10:55	11/23/20 13:52	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00440	mg/kg	0.00440	0.00133	1	11/15/20 10:55	11/23/20 13:52	76-13-1	
Tetrachloroethene	<0.00440	mg/kg	0.00440	0.00158	1	11/15/20 10:55	11/23/20 13:52	127-18-4	
Toluene	0.518	mg/kg	0.00880	0.00229	1	11/15/20 10:55	11/23/20 13:52	108-88-3	
1,2,3-Trichlorobenzene	<0.0220	mg/kg	0.0220	0.0129	1	11/15/20 10:55	11/23/20 13:52	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0220	mg/kg	0.0220	0.00775	1	11/15/20 10:55	11/23/20 13:52	120-82-1	
1,1,1-Trichloroethane	<0.00440	mg/kg	0.00440	0.00163	1	11/15/20 10:55	11/23/20 13:52	71-55-6	
1,1,2-Trichloroethane	<0.00440	mg/kg	0.00440	0.00105	1	11/15/20 10:55	11/23/20 13:52	79-00-5	
Trichloroethene	<0.00176	mg/kg	0.00176	0.00103	1	11/15/20 10:55	11/23/20 13:52	79-01-6	
Trichlorofluoromethane	<0.00440	mg/kg	0.00440	0.00146	1	11/15/20 10:55	11/23/20 13:52	75-69-4	
1,2,3-Trichloropropane	<0.0220	mg/kg	0.0220	0.00285	1	11/15/20 10:55	11/23/20 13:52	96-18-4	
1,2,4-Trimethylbenzene	0.0372	mg/kg	0.00880	0.00278	1	11/15/20 10:55	11/23/20 13:52	95-63-6	
1,2,3-Trimethylbenzene	0.0132	mg/kg	0.00880	0.00278	1	11/15/20 10:55	11/23/20 13:52	526-73-8	
1,3,5-Trimethylbenzene	0.0159	mg/kg	0.00880	0.00352	1	11/15/20 10:55	11/23/20 13:52	108-67-8	
Vinyl chloride	<0.00440	mg/kg	0.00440	0.00204	1	11/15/20 10:55	11/23/20 13:52	75-01-4	
Xylene (Total)	0.287	mg/kg	0.0114	0.00155	1	11/15/20 10:55	11/23/20 13:52	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	114	%	75.0-131		1	11/15/20 10:55	11/23/20 13:52	2037-26-5	
4-Bromofluorobenzene (S)	92.5	%	67.0-138		1	11/15/20 10:55	11/23/20 13:52	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130		1	11/15/20 10:55	11/23/20 13:52	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	73.9	%			1	11/25/20 04:06	11/25/20 04:13		

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

**Sample: 0-B**      **Lab ID: 92506486002**      Collected: 11/15/20 11:10      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<9.22	mg/kg	9.22	3.08	1	11/15/20 11:10	11/23/20 19:44		
Aliphatic (C09-C12)	4.63J	mg/kg	9.22	3.08	1	11/15/20 11:10	11/23/20 19:44		J
Aromatic (C09-C10), Unadjusted	<9.22	mg/kg	9.22	3.08	1	11/15/20 11:10	11/23/20 19:44	TPHC9C10A	
Total VPH	4.63J	mg/kg	9.22	3.08	1	11/15/20 11:10	11/23/20 19:44	VPH	J

**Surrogates**

2,5-Dibromotoluene (FID)	82.4	%	70.0-130		1	11/15/20 11:10	11/23/20 19:44	615-59-8FID	
2,5-Dibromotoluene (PID)	82.9	%	70.0-130		1	11/15/20 11:10	11/23/20 19:44	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<0.0901	mg/kg	0.0901	0.0658	1	11/15/20 11:10	11/23/20 14:11	67-64-1	
Acrylonitrile	<0.0225	mg/kg	0.0225	0.00650	1	11/15/20 11:10	11/23/20 14:11	107-13-1	
Benzene	0.00225	mg/kg	0.00180	0.000841	1	11/15/20 11:10	11/23/20 14:11	71-43-2	
Bromobenzene	<0.0225	mg/kg	0.0225	0.00162	1	11/15/20 11:10	11/23/20 14:11	108-86-1	
Bromodichloromethane	<0.00450	mg/kg	0.00450	0.00131	1	11/15/20 11:10	11/23/20 14:11	75-27-4	
Bromoform	<0.0450	mg/kg	0.0450	0.00211	1	11/15/20 11:10	11/23/20 14:11	75-25-2	
Bromomethane	<0.0225	mg/kg	0.0225	0.00355	1	11/15/20 11:10	11/23/20 14:11	74-83-9	
n-Butylbenzene	<0.0225	mg/kg	0.0225	0.00946	1	11/15/20 11:10	11/23/20 14:11	104-51-8	
sec-Butylbenzene	0.00541J	mg/kg	0.0225	0.00519	1	11/15/20 11:10	11/23/20 14:11	135-98-8	J
tert-Butylbenzene	<0.00901	mg/kg	0.00901	0.00351	1	11/15/20 11:10	11/23/20 14:11	98-06-6	
Carbon tetrachloride	<0.00901	mg/kg	0.00901	0.00162	1	11/15/20 11:10	11/23/20 14:11	56-23-5	
Chlorobenzene	<0.00450	mg/kg	0.00450	0.000378	1	11/15/20 11:10	11/23/20 14:11	108-90-7	
Dibromochloromethane	<0.00450	mg/kg	0.00450	0.00110	1	11/15/20 11:10	11/23/20 14:11	124-48-1	
Chloroethane	<0.00901	mg/kg	0.00901	0.00306	1	11/15/20 11:10	11/23/20 14:11	75-00-3	
Chloroform	<0.00450	mg/kg	0.00450	0.00186	1	11/15/20 11:10	11/23/20 14:11	67-66-3	
Chloromethane	<0.0225	mg/kg	0.0225	0.00784	1	11/15/20 11:10	11/23/20 14:11	74-87-3	
2-Chlorotoluene	<0.00450	mg/kg	0.00450	0.00156	1	11/15/20 11:10	11/23/20 14:11	95-49-8	
4-Chlorotoluene	<0.00901	mg/kg	0.00901	0.000811	1	11/15/20 11:10	11/23/20 14:11	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0450	mg/kg	0.0450	0.00703	1	11/15/20 11:10	11/23/20 14:11	96-12-8	
1,2-Dibromoethane (EDB)	<0.00450	mg/kg	0.00450	0.00117	1	11/15/20 11:10	11/23/20 14:11	106-93-4	
Dibromomethane	<0.00901	mg/kg	0.00901	0.00135	1	11/15/20 11:10	11/23/20 14:11	74-95-3	
1,2-Dichlorobenzene	<0.00901	mg/kg	0.00901	0.000766	1	11/15/20 11:10	11/23/20 14:11	95-50-1	
1,3-Dichlorobenzene	<0.00901	mg/kg	0.00901	0.00108	1	11/15/20 11:10	11/23/20 14:11	541-73-1	
1,4-Dichlorobenzene	<0.00901	mg/kg	0.00901	0.00126	1	11/15/20 11:10	11/23/20 14:11	106-46-7	
Dichlorodifluoromethane	<0.00450	mg/kg	0.00450	0.00290	1	11/15/20 11:10	11/23/20 14:11	75-71-8	
1,1-Dichloroethane	<0.00450	mg/kg	0.00450	0.000885	1	11/15/20 11:10	11/23/20 14:11	75-34-3	
1,2-Dichloroethane	<0.00450	mg/kg	0.00450	0.00117	1	11/15/20 11:10	11/23/20 14:11	107-06-2	
1,1-Dichloroethene	<0.00450	mg/kg	0.00450	0.00109	1	11/15/20 11:10	11/23/20 14:11	75-35-4	
cis-1,2-Dichloroethene	<0.00450	mg/kg	0.00450	0.00132	1	11/15/20 11:10	11/23/20 14:11	156-59-2	
trans-1,2-Dichloroethene	<0.00901	mg/kg	0.00901	0.00187	1	11/15/20 11:10	11/23/20 14:11	156-60-5	
1,2-Dichloropropane	<0.00901	mg/kg	0.00901	0.00256	1	11/15/20 11:10	11/23/20 14:11	78-87-5	
1,1-Dichloropropene	<0.00450	mg/kg	0.00450	0.00146	1	11/15/20 11:10	11/23/20 14:11	563-58-6	
1,3-Dichloropropane	<0.00901	mg/kg	0.00901	0.000903	1	11/15/20 11:10	11/23/20 14:11	142-28-9	
cis-1,3-Dichloropropene	<0.00450	mg/kg	0.00450	0.00136	1	11/15/20 11:10	11/23/20 14:11	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

Sample: 0-B Lab ID: 92506486002 Collected: 11/15/20 11:10 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00901	mg/kg	0.00901	0.00205	1	11/15/20 11:10	11/23/20 14:11	10061-02-6	
2,2-Dichloropropane	<0.00450	mg/kg	0.00450	0.00249	1	11/15/20 11:10	11/23/20 14:11	594-20-7	
Diisopropyl ether	<0.00180	mg/kg	0.00180	0.000739	1	11/15/20 11:10	11/23/20 14:11	108-20-3	
Ethylbenzene	0.00411J	mg/kg	0.00450	0.00133	1	11/15/20 11:10	11/23/20 14:11	100-41-4	J
Hexachloro-1,3-butadiene	<0.0450	mg/kg	0.0450	0.0108	1	11/15/20 11:10	11/23/20 14:11	87-68-3	
Isopropylbenzene (Cumene)	0.000995J	mg/kg	0.00450	0.000766	1	11/15/20 11:10	11/23/20 14:11	98-82-8	J
p-Isopropyltoluene	0.0119	mg/kg	0.00901	0.00459	1	11/15/20 11:10	11/23/20 14:11	99-87-6	
2-Butanone (MEK)	<0.180	mg/kg	0.180	0.114	1	11/15/20 11:10	11/23/20 14:11	78-93-3	
Methylene Chloride	<0.0450	mg/kg	0.0450	0.0120	1	11/15/20 11:10	11/23/20 14:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0450	mg/kg	0.0450	0.00411	1	11/15/20 11:10	11/23/20 14:11	108-10-1	
Methyl-tert-butyl ether	<0.00180	mg/kg	0.00180	0.000631	1	11/15/20 11:10	11/23/20 14:11	1634-04-4	
Naphthalene	0.122	mg/kg	0.0225	0.00879	1	11/15/20 11:10	11/23/20 14:11	91-20-3	C3
n-Propylbenzene	0.00368J	mg/kg	0.00901	0.00171	1	11/15/20 11:10	11/23/20 14:11	103-65-1	J
Styrene	<0.0225	mg/kg	0.0225	0.000413	1	11/15/20 11:10	11/23/20 14:11	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00450	mg/kg	0.00450	0.00171	1	11/15/20 11:10	11/23/20 14:11	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00450	mg/kg	0.00450	0.00125	1	11/15/20 11:10	11/23/20 14:11	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00450	mg/kg	0.00450	0.00136	1	11/15/20 11:10	11/23/20 14:11	76-13-1	
Tetrachloroethene	<0.00450	mg/kg	0.00450	0.00161	1	11/15/20 11:10	11/23/20 14:11	127-18-4	
Toluene	0.0108	mg/kg	0.00901	0.00234	1	11/15/20 11:10	11/23/20 14:11	108-88-3	
1,2,3-Trichlorobenzene	<0.0225	mg/kg	0.0225	0.0132	1	11/15/20 11:10	11/23/20 14:11	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0225	mg/kg	0.0225	0.00793	1	11/15/20 11:10	11/23/20 14:11	120-82-1	
1,1,1-Trichloroethane	<0.00450	mg/kg	0.00450	0.00166	1	11/15/20 11:10	11/23/20 14:11	71-55-6	
1,1,2-Trichloroethane	<0.00450	mg/kg	0.00450	0.00108	1	11/15/20 11:10	11/23/20 14:11	79-00-5	
Trichloroethene	<0.00180	mg/kg	0.00180	0.00105	1	11/15/20 11:10	11/23/20 14:11	79-01-6	
Trichlorofluoromethane	<0.00450	mg/kg	0.00450	0.00149	1	11/15/20 11:10	11/23/20 14:11	75-69-4	
1,2,3-Trichloropropane	<0.0225	mg/kg	0.0225	0.00292	1	11/15/20 11:10	11/23/20 14:11	96-18-4	
1,2,4-Trimethylbenzene	0.0784	mg/kg	0.00901	0.00285	1	11/15/20 11:10	11/23/20 14:11	95-63-6	
1,2,3-Trimethylbenzene	0.0508	mg/kg	0.00901	0.00285	1	11/15/20 11:10	11/23/20 14:11	526-73-8	
1,3,5-Trimethylbenzene	0.0350	mg/kg	0.00901	0.00360	1	11/15/20 11:10	11/23/20 14:11	108-67-8	
Vinyl chloride	<0.00450	mg/kg	0.00450	0.00209	1	11/15/20 11:10	11/23/20 14:11	75-01-4	
Xylene (Total)	0.0286	mg/kg	0.0117	0.00159	1	11/15/20 11:10	11/23/20 14:11	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	112	%	75.0-131		1	11/15/20 11:10	11/23/20 14:11	2037-26-5	
4-Bromofluorobenzene (S)	94.8	%	67.0-138		1	11/15/20 11:10	11/23/20 14:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70.0-130		1	11/15/20 11:10	11/23/20 14:11	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids 71.8 % 1 11/25/20 04:06 11/25/20 04:13

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

**Sample: 0-E**      **Lab ID: 92506486003**      Collected: 11/15/20 11:25      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<8.68	mg/kg	8.68	2.90	1	11/15/20 11:25	11/23/20 20:17		
Aliphatic (C09-C12)	<8.68	mg/kg	8.68	2.90	1	11/15/20 11:25	11/23/20 20:17		
Aromatic (C09-C10), Unadjusted	<8.68	mg/kg	8.68	2.90	1	11/15/20 11:25	11/23/20 20:17	TPHC9C10A	
Total VPH	<8.68	mg/kg	8.68	2.90	1	11/15/20 11:25	11/23/20 20:17	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	81.6	%	70.0-130		1	11/15/20 11:25	11/23/20 20:17	615-59-8FID	
2,5-Dibromotoluene (PID)	80.5	%	70.0-130		1	11/15/20 11:25	11/23/20 20:17	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<0.0862	mg/kg	0.0862	0.0630	1	11/15/20 11:25	11/23/20 14:30	67-64-1	
Acrylonitrile	<0.0216	mg/kg	0.0216	0.00623	1	11/15/20 11:25	11/23/20 14:30	107-13-1	
Benzene	<0.00172	mg/kg	0.00172	0.000805	1	11/15/20 11:25	11/23/20 14:30	71-43-2	
Bromobenzene	<0.0216	mg/kg	0.0216	0.00155	1	11/15/20 11:25	11/23/20 14:30	108-86-1	
Bromodichloromethane	<0.00431	mg/kg	0.00431	0.00125	1	11/15/20 11:25	11/23/20 14:30	75-27-4	
Bromoform	<0.0431	mg/kg	0.0431	0.00202	1	11/15/20 11:25	11/23/20 14:30	75-25-2	
Bromomethane	<0.0216	mg/kg	0.0216	0.00340	1	11/15/20 11:25	11/23/20 14:30	74-83-9	
n-Butylbenzene	<0.0216	mg/kg	0.0216	0.00906	1	11/15/20 11:25	11/23/20 14:30	104-51-8	
sec-Butylbenzene	<0.0216	mg/kg	0.0216	0.00497	1	11/15/20 11:25	11/23/20 14:30	135-98-8	
tert-Butylbenzene	<0.00862	mg/kg	0.00862	0.00336	1	11/15/20 11:25	11/23/20 14:30	98-06-6	
Carbon tetrachloride	<0.00862	mg/kg	0.00862	0.00155	1	11/15/20 11:25	11/23/20 14:30	56-23-5	
Chlorobenzene	<0.00431	mg/kg	0.00431	0.000362	1	11/15/20 11:25	11/23/20 14:30	108-90-7	
Dibromochloromethane	<0.00431	mg/kg	0.00431	0.00106	1	11/15/20 11:25	11/23/20 14:30	124-48-1	
Chloroethane	<0.00862	mg/kg	0.00862	0.00293	1	11/15/20 11:25	11/23/20 14:30	75-00-3	
Chloroform	<0.00431	mg/kg	0.00431	0.00178	1	11/15/20 11:25	11/23/20 14:30	67-66-3	
Chloromethane	<0.0216	mg/kg	0.0216	0.00750	1	11/15/20 11:25	11/23/20 14:30	74-87-3	
2-Chlorotoluene	<0.00431	mg/kg	0.00431	0.00149	1	11/15/20 11:25	11/23/20 14:30	95-49-8	
4-Chlorotoluene	<0.00862	mg/kg	0.00862	0.000776	1	11/15/20 11:25	11/23/20 14:30	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0431	mg/kg	0.0431	0.00673	1	11/15/20 11:25	11/23/20 14:30	96-12-8	
1,2-Dibromoethane (EDB)	<0.00431	mg/kg	0.00431	0.00112	1	11/15/20 11:25	11/23/20 14:30	106-93-4	
Dibromomethane	<0.00862	mg/kg	0.00862	0.00129	1	11/15/20 11:25	11/23/20 14:30	74-95-3	
1,2-Dichlorobenzene	<0.00862	mg/kg	0.00862	0.000733	1	11/15/20 11:25	11/23/20 14:30	95-50-1	
1,3-Dichlorobenzene	<0.00862	mg/kg	0.00862	0.00103	1	11/15/20 11:25	11/23/20 14:30	541-73-1	
1,4-Dichlorobenzene	<0.00862	mg/kg	0.00862	0.00121	1	11/15/20 11:25	11/23/20 14:30	106-46-7	
Dichlorodifluoromethane	<0.00431	mg/kg	0.00431	0.00278	1	11/15/20 11:25	11/23/20 14:30	75-71-8	
1,1-Dichloroethane	<0.00431	mg/kg	0.00431	0.000847	1	11/15/20 11:25	11/23/20 14:30	75-34-3	
1,2-Dichloroethane	<0.00431	mg/kg	0.00431	0.00112	1	11/15/20 11:25	11/23/20 14:30	107-06-2	
1,1-Dichloroethene	<0.00431	mg/kg	0.00431	0.00105	1	11/15/20 11:25	11/23/20 14:30	75-35-4	
cis-1,2-Dichloroethene	<0.00431	mg/kg	0.00431	0.00127	1	11/15/20 11:25	11/23/20 14:30	156-59-2	
trans-1,2-Dichloroethene	<0.00862	mg/kg	0.00862	0.00179	1	11/15/20 11:25	11/23/20 14:30	156-60-5	
1,2-Dichloropropane	<0.00862	mg/kg	0.00862	0.00245	1	11/15/20 11:25	11/23/20 14:30	78-87-5	
1,1-Dichloropropene	<0.00431	mg/kg	0.00431	0.00140	1	11/15/20 11:25	11/23/20 14:30	563-58-6	
1,3-Dichloropropane	<0.00862	mg/kg	0.00862	0.000864	1	11/15/20 11:25	11/23/20 14:30	142-28-9	
cis-1,3-Dichloropropene	<0.00431	mg/kg	0.00431	0.00131	1	11/15/20 11:25	11/23/20 14:30	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 0-E**      **Lab ID: 92506486003**      Collected: 11/15/20 11:25      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00862	mg/kg	0.00862	0.00197	1	11/15/20 11:25	11/23/20 14:30	10061-02-6	
2,2-Dichloropropane	<0.00431	mg/kg	0.00431	0.00238	1	11/15/20 11:25	11/23/20 14:30	594-20-7	
Diisopropyl ether	<0.00172	mg/kg	0.00172	0.000707	1	11/15/20 11:25	11/23/20 14:30	108-20-3	
Ethylbenzene	0.00150J	mg/kg	0.00431	0.00127	1	11/15/20 11:25	11/23/20 14:30	100-41-4	J
Hexachloro-1,3-butadiene	<0.0431	mg/kg	0.0431	0.0103	1	11/15/20 11:25	11/23/20 14:30	87-68-3	
Isopropylbenzene (Cumene)	<0.00431	mg/kg	0.00431	0.000733	1	11/15/20 11:25	11/23/20 14:30	98-82-8	
p-Isopropyltoluene	<0.00862	mg/kg	0.00862	0.00440	1	11/15/20 11:25	11/23/20 14:30	99-87-6	
2-Butanone (MEK)	<0.172	mg/kg	0.172	0.110	1	11/15/20 11:25	11/23/20 14:30	78-93-3	
Methylene Chloride	<0.0431	mg/kg	0.0431	0.0115	1	11/15/20 11:25	11/23/20 14:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0431	mg/kg	0.0431	0.00393	1	11/15/20 11:25	11/23/20 14:30	108-10-1	
Methyl-tert-butyl ether	0.00248	mg/kg	0.00172	0.000604	1	11/15/20 11:25	11/23/20 14:30	1634-04-4	
Naphthalene	<0.0216	mg/kg	0.0216	0.00842	1	11/15/20 11:25	11/23/20 14:30	91-20-3	C3
n-Propylbenzene	<0.00862	mg/kg	0.00862	0.00164	1	11/15/20 11:25	11/23/20 14:30	103-65-1	
Styrene	0.000412J	mg/kg	0.0216	0.000395	1	11/15/20 11:25	11/23/20 14:30	100-42-5	J
1,1,1,2-Tetrachloroethane	<0.00431	mg/kg	0.00431	0.00164	1	11/15/20 11:25	11/23/20 14:30	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00431	mg/kg	0.00431	0.00120	1	11/15/20 11:25	11/23/20 14:30	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00431	mg/kg	0.00431	0.00130	1	11/15/20 11:25	11/23/20 14:30	76-13-1	
Tetrachloroethene	<0.00431	mg/kg	0.00431	0.00155	1	11/15/20 11:25	11/23/20 14:30	127-18-4	
Toluene	0.00252J	mg/kg	0.00862	0.00224	1	11/15/20 11:25	11/23/20 14:30	108-88-3	J
1,2,3-Trichlorobenzene	<0.0216	mg/kg	0.0216	0.0126	1	11/15/20 11:25	11/23/20 14:30	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0216	mg/kg	0.0216	0.00759	1	11/15/20 11:25	11/23/20 14:30	120-82-1	
1,1,1-Trichloroethane	<0.00431	mg/kg	0.00431	0.00159	1	11/15/20 11:25	11/23/20 14:30	71-55-6	
1,1,2-Trichloroethane	<0.00431	mg/kg	0.00431	0.00103	1	11/15/20 11:25	11/23/20 14:30	79-00-5	
Trichloroethene	<0.00172	mg/kg	0.00172	0.00101	1	11/15/20 11:25	11/23/20 14:30	79-01-6	
Trichlorofluoromethane	<0.00431	mg/kg	0.00431	0.00143	1	11/15/20 11:25	11/23/20 14:30	75-69-4	
1,2,3-Trichloropropane	<0.0216	mg/kg	0.0216	0.00279	1	11/15/20 11:25	11/23/20 14:30	96-18-4	
1,2,4-Trimethylbenzene	0.00281J	mg/kg	0.00862	0.00273	1	11/15/20 11:25	11/23/20 14:30	95-63-6	J
1,2,3-Trimethylbenzene	<0.00862	mg/kg	0.00862	0.00273	1	11/15/20 11:25	11/23/20 14:30	526-73-8	
1,3,5-Trimethylbenzene	<0.00862	mg/kg	0.00862	0.00345	1	11/15/20 11:25	11/23/20 14:30	108-67-8	
Vinyl chloride	<0.00431	mg/kg	0.00431	0.00200	1	11/15/20 11:25	11/23/20 14:30	75-01-4	
Xylene (Total)	0.00179J	mg/kg	0.0112	0.00152	1	11/15/20 11:25	11/23/20 14:30	1330-20-7	J
<b>Surrogates</b>									
Toluene-d8 (S)	114	%	75.0-131		1	11/15/20 11:25	11/23/20 14:30	2037-26-5	
4-Bromofluorobenzene (S)	89.2	%	67.0-138		1	11/15/20 11:25	11/23/20 14:30	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130		1	11/15/20 11:25	11/23/20 14:30	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids      **74.8**      %      1      11/25/20 04:06      11/25/20 04:13

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

**Sample: 25-W**      **Lab ID: 92506486004**      Collected: 11/15/20 14:40      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>7.03J</b>	mg/kg	8.68	2.90	1	11/15/20 14:40	11/23/20 20:50		J
Aliphatic (C09-C12)	<b>3.99J</b>	mg/kg	8.68	2.90	1	11/15/20 14:40	11/23/20 20:50		J
Aromatic (C09-C10), Unadjusted	<b>&lt;8.68</b>	mg/kg	8.68	2.90	1	11/15/20 14:40	11/23/20 20:50	TPHC9C10A	
Total VPH	<b>11.0</b>	mg/kg	8.68	2.90	1	11/15/20 14:40	11/23/20 20:50	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	90.8	%	70.0-130		1	11/15/20 14:40	11/23/20 20:50	615-59-8FID	
2,5-Dibromotoluene (PID)	91.1	%	70.0-130		1	11/15/20 14:40	11/23/20 20:50	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<b>&lt;0.0889</b>	mg/kg	0.0889	0.0649	1	11/15/20 14:40	11/23/20 14:49	67-64-1	
Acrylonitrile	<b>&lt;0.0222</b>	mg/kg	0.0222	0.00642	1	11/15/20 14:40	11/23/20 14:49	107-13-1	
Benzene	<b>0.444</b>	mg/kg	0.00178	0.000830	1	11/15/20 14:40	11/23/20 14:49	71-43-2	
Bromobenzene	<b>&lt;0.0222</b>	mg/kg	0.0222	0.00160	1	11/15/20 14:40	11/23/20 14:49	108-86-1	
Bromodichloromethane	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00129	1	11/15/20 14:40	11/23/20 14:49	75-27-4	
Bromoform	<b>&lt;0.0444</b>	mg/kg	0.0444	0.00208	1	11/15/20 14:40	11/23/20 14:49	75-25-2	
Bromomethane	<b>&lt;0.0222</b>	mg/kg	0.0222	0.00350	1	11/15/20 14:40	11/23/20 14:49	74-83-9	
n-Butylbenzene	<b>&lt;0.0222</b>	mg/kg	0.0222	0.00933	1	11/15/20 14:40	11/23/20 14:49	104-51-8	
sec-Butylbenzene	<b>&lt;0.0222</b>	mg/kg	0.0222	0.00512	1	11/15/20 14:40	11/23/20 14:49	135-98-8	
tert-Butylbenzene	<b>&lt;0.00889</b>	mg/kg	0.00889	0.00347	1	11/15/20 14:40	11/23/20 14:49	98-06-6	
Carbon tetrachloride	<b>&lt;0.00889</b>	mg/kg	0.00889	0.00160	1	11/15/20 14:40	11/23/20 14:49	56-23-5	
Chlorobenzene	<b>&lt;0.00444</b>	mg/kg	0.00444	0.000373	1	11/15/20 14:40	11/23/20 14:49	108-90-7	
Dibromochloromethane	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00109	1	11/15/20 14:40	11/23/20 14:49	124-48-1	
Chloroethane	<b>&lt;0.00889</b>	mg/kg	0.00889	0.00302	1	11/15/20 14:40	11/23/20 14:49	75-00-3	
Chloroform	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00183	1	11/15/20 14:40	11/23/20 14:49	67-66-3	
Chloromethane	<b>&lt;0.0222</b>	mg/kg	0.0222	0.00773	1	11/15/20 14:40	11/23/20 14:49	74-87-3	
2-Chlorotoluene	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00154	1	11/15/20 14:40	11/23/20 14:49	95-49-8	
4-Chlorotoluene	<b>&lt;0.00889</b>	mg/kg	0.00889	0.000800	1	11/15/20 14:40	11/23/20 14:49	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0444</b>	mg/kg	0.0444	0.00693	1	11/15/20 14:40	11/23/20 14:49	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00115	1	11/15/20 14:40	11/23/20 14:49	106-93-4	
Dibromomethane	<b>&lt;0.00889</b>	mg/kg	0.00889	0.00133	1	11/15/20 14:40	11/23/20 14:49	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00889</b>	mg/kg	0.00889	0.000756	1	11/15/20 14:40	11/23/20 14:49	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00889</b>	mg/kg	0.00889	0.00107	1	11/15/20 14:40	11/23/20 14:49	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00889</b>	mg/kg	0.00889	0.00124	1	11/15/20 14:40	11/23/20 14:49	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00286	1	11/15/20 14:40	11/23/20 14:49	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00444</b>	mg/kg	0.00444	0.000873	1	11/15/20 14:40	11/23/20 14:49	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00115	1	11/15/20 14:40	11/23/20 14:49	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00108	1	11/15/20 14:40	11/23/20 14:49	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00131	1	11/15/20 14:40	11/23/20 14:49	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00889</b>	mg/kg	0.00889	0.00185	1	11/15/20 14:40	11/23/20 14:49	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00889</b>	mg/kg	0.00889	0.00252	1	11/15/20 14:40	11/23/20 14:49	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00144	1	11/15/20 14:40	11/23/20 14:49	563-58-6	
1,3-Dichloropropane	<b>&lt;0.00889</b>	mg/kg	0.00889	0.000891	1	11/15/20 14:40	11/23/20 14:49	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.00444</b>	mg/kg	0.00444	0.00135	1	11/15/20 14:40	11/23/20 14:49	10061-01-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 25-W**      **Lab ID: 92506486004**      Collected: 11/15/20 14:40      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00889	mg/kg	0.00889	0.00203	1	11/15/20 14:40	11/23/20 14:49	10061-02-6	
2,2-Dichloropropane	<0.00444	mg/kg	0.00444	0.00245	1	11/15/20 14:40	11/23/20 14:49	594-20-7	
Diisopropyl ether	0.0509	mg/kg	0.00178	0.000729	1	11/15/20 14:40	11/23/20 14:49	108-20-3	
Ethylbenzene	0.180	mg/kg	0.00444	0.00131	1	11/15/20 14:40	11/23/20 14:49	100-41-4	
Hexachloro-1,3-butadiene	<0.0444	mg/kg	0.0444	0.0107	1	11/15/20 14:40	11/23/20 14:49	87-68-3	
Isopropylbenzene (Cumene)	0.00685	mg/kg	0.00444	0.000756	1	11/15/20 14:40	11/23/20 14:49	98-82-8	
p-Isopropyltoluene	<0.00889	mg/kg	0.00889	0.00453	1	11/15/20 14:40	11/23/20 14:49	99-87-6	
2-Butanone (MEK)	<0.178	mg/kg	0.178	0.113	1	11/15/20 14:40	11/23/20 14:49	78-93-3	
Methylene Chloride	<0.0444	mg/kg	0.0444	0.0118	1	11/15/20 14:40	11/23/20 14:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0444	mg/kg	0.0444	0.00405	1	11/15/20 14:40	11/23/20 14:49	108-10-1	
Methyl-tert-butyl ether	0.00624	mg/kg	0.00178	0.000622	1	11/15/20 14:40	11/23/20 14:49	1634-04-4	
Naphthalene	<0.0222	mg/kg	0.0222	0.00868	1	11/15/20 14:40	11/23/20 14:49	91-20-3	C3
n-Propylbenzene	0.0233	mg/kg	0.00889	0.00169	1	11/15/20 14:40	11/23/20 14:49	103-65-1	
Styrene	<0.0222	mg/kg	0.0222	0.000407	1	11/15/20 14:40	11/23/20 14:49	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00444	mg/kg	0.00444	0.00169	1	11/15/20 14:40	11/23/20 14:49	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00444	mg/kg	0.00444	0.00124	1	11/15/20 14:40	11/23/20 14:49	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00444	mg/kg	0.00444	0.00134	1	11/15/20 14:40	11/23/20 14:49	76-13-1	
Tetrachloroethene	<0.00444	mg/kg	0.00444	0.00159	1	11/15/20 14:40	11/23/20 14:49	127-18-4	
Toluene	1.71	mg/kg	0.00889	0.00231	1	11/15/20 14:40	11/23/20 14:49	108-88-3	
1,2,3-Trichlorobenzene	<0.0222	mg/kg	0.0222	0.0130	1	11/15/20 14:40	11/23/20 14:49	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0222	mg/kg	0.0222	0.00782	1	11/15/20 14:40	11/23/20 14:49	120-82-1	
1,1,1-Trichloroethane	<0.00444	mg/kg	0.00444	0.00164	1	11/15/20 14:40	11/23/20 14:49	71-55-6	
1,1,2-Trichloroethane	<0.00444	mg/kg	0.00444	0.00106	1	11/15/20 14:40	11/23/20 14:49	79-00-5	
Trichloroethene	<0.00178	mg/kg	0.00178	0.00104	1	11/15/20 14:40	11/23/20 14:49	79-01-6	
Trichlorofluoromethane	<0.00444	mg/kg	0.00444	0.00147	1	11/15/20 14:40	11/23/20 14:49	75-69-4	
1,2,3-Trichloropropane	<0.0222	mg/kg	0.0222	0.00288	1	11/15/20 14:40	11/23/20 14:49	96-18-4	
1,2,4-Trimethylbenzene	0.131	mg/kg	0.00889	0.00281	1	11/15/20 14:40	11/23/20 14:49	95-63-6	
1,2,3-Trimethylbenzene	0.0436	mg/kg	0.00889	0.00281	1	11/15/20 14:40	11/23/20 14:49	526-73-8	
1,3,5-Trimethylbenzene	0.0356	mg/kg	0.00889	0.00356	1	11/15/20 14:40	11/23/20 14:49	108-67-8	
Vinyl chloride	<0.00444	mg/kg	0.00444	0.00206	1	11/15/20 14:40	11/23/20 14:49	75-01-4	
Xylene (Total)	0.921	mg/kg	0.0116	0.00156	1	11/15/20 14:40	11/23/20 14:49	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	112	%	75.0-131		1	11/15/20 14:40	11/23/20 14:49	2037-26-5	
4-Bromofluorobenzene (S)	92.9	%	67.0-138		1	11/15/20 14:40	11/23/20 14:49	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130		1	11/15/20 14:40	11/23/20 14:49	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids      **73.7**      %      1      11/25/20 04:06      11/25/20 04:13

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

**Sample: 25-B**      **Lab ID: 92506486005**      Collected: 11/15/20 14:55      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>4.26J</b>	mg/kg	8.83	2.95	1	11/15/20 14:55	11/23/20 21:23		J
Aliphatic (C09-C12)	<b>3.34J</b>	mg/kg	8.83	2.95	1	11/15/20 14:55	11/23/20 21:23		J
Aromatic (C09-C10), Unadjusted	<b>&lt;8.83</b>	mg/kg	8.83	2.95	1	11/15/20 14:55	11/23/20 21:23	TPHC9C10A	
Total VPH	<b>7.60J</b>	mg/kg	8.83	2.95	1	11/15/20 14:55	11/23/20 21:23	VPH	J

**Surrogates**

2,5-Dibromotoluene (FID)	83.1	%	70.0-130		1	11/15/20 14:55	11/23/20 21:23	615-59-8FID	
2,5-Dibromotoluene (PID)	83.3	%	70.0-130		1	11/15/20 14:55	11/23/20 21:23	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<b>&lt;0.0903</b>	mg/kg	0.0903	0.0659	1	11/15/20 14:55	11/23/20 15:07	67-64-1	
Acrylonitrile	<b>&lt;0.0226</b>	mg/kg	0.0226	0.00652	1	11/15/20 14:55	11/23/20 15:07	107-13-1	
Benzene	<b>0.0143</b>	mg/kg	0.00181	0.000843	1	11/15/20 14:55	11/23/20 15:07	71-43-2	
Bromobenzene	<b>&lt;0.0226</b>	mg/kg	0.0226	0.00162	1	11/15/20 14:55	11/23/20 15:07	108-86-1	
Bromodichloromethane	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00131	1	11/15/20 14:55	11/23/20 15:07	75-27-4	
Bromoform	<b>&lt;0.0451</b>	mg/kg	0.0451	0.00211	1	11/15/20 14:55	11/23/20 15:07	75-25-2	
Bromomethane	<b>&lt;0.0226</b>	mg/kg	0.0226	0.00356	1	11/15/20 14:55	11/23/20 15:07	74-83-9	
n-Butylbenzene	<b>&lt;0.0226</b>	mg/kg	0.0226	0.00948	1	11/15/20 14:55	11/23/20 15:07	104-51-8	
sec-Butylbenzene	<b>&lt;0.0226</b>	mg/kg	0.0226	0.00520	1	11/15/20 14:55	11/23/20 15:07	135-98-8	
tert-Butylbenzene	<b>&lt;0.00903</b>	mg/kg	0.00903	0.00352	1	11/15/20 14:55	11/23/20 15:07	98-06-6	
Carbon tetrachloride	<b>&lt;0.00903</b>	mg/kg	0.00903	0.00162	1	11/15/20 14:55	11/23/20 15:07	56-23-5	
Chlorobenzene	<b>&lt;0.00451</b>	mg/kg	0.00451	0.000379	1	11/15/20 14:55	11/23/20 15:07	108-90-7	
Dibromochloromethane	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00110	1	11/15/20 14:55	11/23/20 15:07	124-48-1	
Chloroethane	<b>&lt;0.00903</b>	mg/kg	0.00903	0.00307	1	11/15/20 14:55	11/23/20 15:07	75-00-3	
Chloroform	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00186	1	11/15/20 14:55	11/23/20 15:07	67-66-3	
Chloromethane	<b>&lt;0.0226</b>	mg/kg	0.0226	0.00785	1	11/15/20 14:55	11/23/20 15:07	74-87-3	
2-Chlorotoluene	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00156	1	11/15/20 14:55	11/23/20 15:07	95-49-8	
4-Chlorotoluene	<b>&lt;0.00903</b>	mg/kg	0.00903	0.000812	1	11/15/20 14:55	11/23/20 15:07	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0451</b>	mg/kg	0.0451	0.00704	1	11/15/20 14:55	11/23/20 15:07	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00117	1	11/15/20 14:55	11/23/20 15:07	106-93-4	
Dibromomethane	<b>&lt;0.00903</b>	mg/kg	0.00903	0.00135	1	11/15/20 14:55	11/23/20 15:07	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00903</b>	mg/kg	0.00903	0.000767	1	11/15/20 14:55	11/23/20 15:07	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00903</b>	mg/kg	0.00903	0.00108	1	11/15/20 14:55	11/23/20 15:07	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00903</b>	mg/kg	0.00903	0.00126	1	11/15/20 14:55	11/23/20 15:07	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00291	1	11/15/20 14:55	11/23/20 15:07	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00451</b>	mg/kg	0.00451	0.000886	1	11/15/20 14:55	11/23/20 15:07	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00117	1	11/15/20 14:55	11/23/20 15:07	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00109	1	11/15/20 14:55	11/23/20 15:07	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00133	1	11/15/20 14:55	11/23/20 15:07	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00903</b>	mg/kg	0.00903	0.00188	1	11/15/20 14:55	11/23/20 15:07	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00903</b>	mg/kg	0.00903	0.00256	1	11/15/20 14:55	11/23/20 15:07	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00146	1	11/15/20 14:55	11/23/20 15:07	563-58-6	
1,3-Dichloropropane	<b>&lt;0.00903</b>	mg/kg	0.00903	0.000904	1	11/15/20 14:55	11/23/20 15:07	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.00451</b>	mg/kg	0.00451	0.00137	1	11/15/20 14:55	11/23/20 15:07	10061-01-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 25-B**      **Lab ID: 92506486005**      Collected: 11/15/20 14:55      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00903	mg/kg	0.00903	0.00206	1	11/15/20 14:55	11/23/20 15:07	10061-02-6	
2,2-Dichloropropane	<0.00451	mg/kg	0.00451	0.00249	1	11/15/20 14:55	11/23/20 15:07	594-20-7	
Diisopropyl ether	<0.00181	mg/kg	0.00181	0.000740	1	11/15/20 14:55	11/23/20 15:07	108-20-3	
Ethylbenzene	0.0312	mg/kg	0.00451	0.00133	1	11/15/20 14:55	11/23/20 15:07	100-41-4	
Hexachloro-1,3-butadiene	<0.0451	mg/kg	0.0451	0.0108	1	11/15/20 14:55	11/23/20 15:07	87-68-3	
Isopropylbenzene (Cumene)	0.00289J	mg/kg	0.00451	0.000767	1	11/15/20 14:55	11/23/20 15:07	98-82-8	J
p-Isopropyltoluene	<0.00903	mg/kg	0.00903	0.00460	1	11/15/20 14:55	11/23/20 15:07	99-87-6	
2-Butanone (MEK)	<0.181	mg/kg	0.181	0.115	1	11/15/20 14:55	11/23/20 15:07	78-93-3	
Methylene Chloride	<0.0451	mg/kg	0.0451	0.0120	1	11/15/20 14:55	11/23/20 15:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0451	mg/kg	0.0451	0.00412	1	11/15/20 14:55	11/23/20 15:07	108-10-1	
Methyl-tert-butyl ether	<0.00181	mg/kg	0.00181	0.000632	1	11/15/20 14:55	11/23/20 15:07	1634-04-4	
Naphthalene	<0.0226	mg/kg	0.0226	0.00881	1	11/15/20 14:55	11/23/20 15:07	91-20-3	C3
n-Propylbenzene	0.0155	mg/kg	0.00903	0.00171	1	11/15/20 14:55	11/23/20 15:07	103-65-1	
Styrene	<0.0226	mg/kg	0.0226	0.000413	1	11/15/20 14:55	11/23/20 15:07	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00451	mg/kg	0.00451	0.00171	1	11/15/20 14:55	11/23/20 15:07	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00451	mg/kg	0.00451	0.00125	1	11/15/20 14:55	11/23/20 15:07	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00451	mg/kg	0.00451	0.00136	1	11/15/20 14:55	11/23/20 15:07	76-13-1	
Tetrachloroethene	<0.00451	mg/kg	0.00451	0.00162	1	11/15/20 14:55	11/23/20 15:07	127-18-4	
Toluene	0.136	mg/kg	0.00903	0.00235	1	11/15/20 14:55	11/23/20 15:07	108-88-3	
1,2,3-Trichlorobenzene	<0.0226	mg/kg	0.0226	0.0132	1	11/15/20 14:55	11/23/20 15:07	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0226	mg/kg	0.0226	0.00794	1	11/15/20 14:55	11/23/20 15:07	120-82-1	
1,1,1-Trichloroethane	<0.00451	mg/kg	0.00451	0.00167	1	11/15/20 14:55	11/23/20 15:07	71-55-6	
1,1,2-Trichloroethane	<0.00451	mg/kg	0.00451	0.00108	1	11/15/20 14:55	11/23/20 15:07	79-00-5	
Trichloroethene	<0.00181	mg/kg	0.00181	0.00105	1	11/15/20 14:55	11/23/20 15:07	79-01-6	
Trichlorofluoromethane	<0.00451	mg/kg	0.00451	0.00149	1	11/15/20 14:55	11/23/20 15:07	75-69-4	
1,2,3-Trichloropropane	<0.0226	mg/kg	0.0226	0.00292	1	11/15/20 14:55	11/23/20 15:07	96-18-4	
1,2,4-Trimethylbenzene	0.101	mg/kg	0.00903	0.00285	1	11/15/20 14:55	11/23/20 15:07	95-63-6	
1,2,3-Trimethylbenzene	0.0341	mg/kg	0.00903	0.00285	1	11/15/20 14:55	11/23/20 15:07	526-73-8	
1,3,5-Trimethylbenzene	0.0466	mg/kg	0.00903	0.00361	1	11/15/20 14:55	11/23/20 15:07	108-67-8	
Vinyl chloride	<0.00451	mg/kg	0.00451	0.00209	1	11/15/20 14:55	11/23/20 15:07	75-01-4	
Xylene (Total)	0.226	mg/kg	0.0117	0.00159	1	11/15/20 14:55	11/23/20 15:07	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		1	11/15/20 14:55	11/23/20 15:07	2037-26-5	
4-Bromofluorobenzene (S)	91.7	%	67.0-138		1	11/15/20 14:55	11/23/20 15:07	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130		1	11/15/20 14:55	11/23/20 15:07	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	73.1	%			1	11/25/20 04:06	11/25/20 04:13		

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

Sample: 25-E Lab ID: 92506486006 Collected: 11/15/20 15:05 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEP VPH Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	4.57J	mg/kg	9.48	3.17	1	11/15/20 15:05	11/24/20 12:03		J
Aliphatic (C09-C12)	<9.48	mg/kg	9.48	3.17	1	11/15/20 15:05	11/24/20 12:03		
Aromatic (C09-C10), Unadjusted	<9.48	mg/kg	9.48	3.17	1	11/15/20 15:05	11/24/20 12:03	TPHC9C10A	
Total VPH	4.57J	mg/kg	9.48	3.17	1	11/15/20 15:05	11/24/20 12:03	VPH	J
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	74.7	%	70.0-130		1	11/15/20 15:05	11/24/20 12:03	615-59-8FID	
2,5-Dibromotoluene (PID)	73.3	%	70.0-130		1	11/15/20 15:05	11/24/20 12:03	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.0945	mg/kg	0.0945	0.0690	1	11/15/20 15:05	11/24/20 21:52	67-64-1	
Acrylonitrile	<0.0236	mg/kg	0.0236	0.00682	1	11/15/20 15:05	11/24/20 21:52	107-13-1	
Benzene	0.00185J	mg/kg	0.00189	0.000882	1	11/15/20 15:05	11/24/20 21:52	71-43-2	J
Bromobenzene	<0.0236	mg/kg	0.0236	0.00170	1	11/15/20 15:05	11/24/20 21:52	108-86-1	
Bromodichloromethane	<0.00472	mg/kg	0.00472	0.00137	1	11/15/20 15:05	11/24/20 21:52	75-27-4	
Bromoform	<0.0472	mg/kg	0.0472	0.00221	1	11/15/20 15:05	11/24/20 21:52	75-25-2	
Bromomethane	<0.0236	mg/kg	0.0236	0.00372	1	11/15/20 15:05	11/24/20 21:52	74-83-9	
n-Butylbenzene	<0.0236	mg/kg	0.0236	0.00992	1	11/15/20 15:05	11/24/20 21:52	104-51-8	
sec-Butylbenzene	<0.0236	mg/kg	0.0236	0.00544	1	11/15/20 15:05	11/24/20 21:52	135-98-8	
tert-Butylbenzene	<0.00945	mg/kg	0.00945	0.00368	1	11/15/20 15:05	11/24/20 21:52	98-06-6	
Carbon tetrachloride	<0.00945	mg/kg	0.00945	0.00170	1	11/15/20 15:05	11/24/20 21:52	56-23-5	
Chlorobenzene	<0.00472	mg/kg	0.00472	0.000397	1	11/15/20 15:05	11/24/20 21:52	108-90-7	
Dibromochloromethane	<0.00472	mg/kg	0.00472	0.00116	1	11/15/20 15:05	11/24/20 21:52	124-48-1	
Chloroethane	<0.00945	mg/kg	0.00945	0.00321	1	11/15/20 15:05	11/24/20 21:52	75-00-3	
Chloroform	<0.00472	mg/kg	0.00472	0.00195	1	11/15/20 15:05	11/24/20 21:52	67-66-3	
Chloromethane	<0.0236	mg/kg	0.0236	0.00822	1	11/15/20 15:05	11/24/20 21:52	74-87-3	
2-Chlorotoluene	<0.00472	mg/kg	0.00472	0.00163	1	11/15/20 15:05	11/24/20 21:52	95-49-8	
4-Chlorotoluene	<0.00945	mg/kg	0.00945	0.000850	1	11/15/20 15:05	11/24/20 21:52	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0472	mg/kg	0.0472	0.00737	1	11/15/20 15:05	11/24/20 21:52	96-12-8	
1,2-Dibromoethane (EDB)	<0.00472	mg/kg	0.00472	0.00122	1	11/15/20 15:05	11/24/20 21:52	106-93-4	
Dibromomethane	<0.00945	mg/kg	0.00945	0.00142	1	11/15/20 15:05	11/24/20 21:52	74-95-3	
1,2-Dichlorobenzene	<0.00945	mg/kg	0.00945	0.000803	1	11/15/20 15:05	11/24/20 21:52	95-50-1	
1,3-Dichlorobenzene	<0.00945	mg/kg	0.00945	0.00113	1	11/15/20 15:05	11/24/20 21:52	541-73-1	
1,4-Dichlorobenzene	<0.00945	mg/kg	0.00945	0.00132	1	11/15/20 15:05	11/24/20 21:52	106-46-7	
Dichlorodifluoromethane	<0.00472	mg/kg	0.00472	0.00304	1	11/15/20 15:05	11/24/20 21:52	75-71-8	
1,1-Dichloroethane	<0.00472	mg/kg	0.00472	0.000928	1	11/15/20 15:05	11/24/20 21:52	75-34-3	
1,2-Dichloroethane	<0.00472	mg/kg	0.00472	0.00123	1	11/15/20 15:05	11/24/20 21:52	107-06-2	
1,1-Dichloroethene	<0.00472	mg/kg	0.00472	0.00114	1	11/15/20 15:05	11/24/20 21:52	75-35-4	L0
cis-1,2-Dichloroethene	<0.00472	mg/kg	0.00472	0.00139	1	11/15/20 15:05	11/24/20 21:52	156-59-2	
trans-1,2-Dichloroethene	<0.00945	mg/kg	0.00945	0.00196	1	11/15/20 15:05	11/24/20 21:52	156-60-5	
1,2-Dichloropropane	<0.00945	mg/kg	0.00945	0.00268	1	11/15/20 15:05	11/24/20 21:52	78-87-5	
1,1-Dichloropropene	<0.00472	mg/kg	0.00472	0.00153	1	11/15/20 15:05	11/24/20 21:52	563-58-6	
1,3-Dichloropropane	<0.00945	mg/kg	0.00945	0.000947	1	11/15/20 15:05	11/24/20 21:52	142-28-9	
cis-1,3-Dichloropropene	<0.00472	mg/kg	0.00472	0.00143	1	11/15/20 15:05	11/24/20 21:52	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 25-E Lab ID: 92506486006 Collected: 11/15/20 15:05 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00945	mg/kg	0.00945	0.00215	1	11/15/20 15:05	11/24/20 21:52	10061-02-6	
2,2-Dichloropropane	<0.00472	mg/kg	0.00472	0.00261	1	11/15/20 15:05	11/24/20 21:52	594-20-7	
Diisopropyl ether	<0.00189	mg/kg	0.00189	0.000775	1	11/15/20 15:05	11/24/20 21:52	108-20-3	
Ethylbenzene	0.00171J	mg/kg	0.00472	0.00139	1	11/15/20 15:05	11/24/20 21:52	100-41-4	J
Hexachloro-1,3-butadiene	<0.0472	mg/kg	0.0472	0.0113	1	11/15/20 15:05	11/24/20 21:52	87-68-3	
Isopropylbenzene (Cumene)	<0.00472	mg/kg	0.00472	0.000803	1	11/15/20 15:05	11/24/20 21:52	98-82-8	
p-Isopropyltoluene	<0.00945	mg/kg	0.00945	0.00482	1	11/15/20 15:05	11/24/20 21:52	99-87-6	
2-Butanone (MEK)	<0.189	mg/kg	0.189	0.120	1	11/15/20 15:05	11/24/20 21:52	78-93-3	
Methylene Chloride	<0.0472	mg/kg	0.0472	0.0125	1	11/15/20 15:05	11/24/20 21:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0472	mg/kg	0.0472	0.00431	1	11/15/20 15:05	11/24/20 21:52	108-10-1	
Methyl-tert-butyl ether	0.00148J	mg/kg	0.00189	0.000661	1	11/15/20 15:05	11/24/20 21:52	1634-04-4	J
Naphthalene	<0.0236	mg/kg	0.0236	0.00922	1	11/15/20 15:05	11/24/20 21:52	91-20-3	
n-Propylbenzene	<0.00945	mg/kg	0.00945	0.00179	1	11/15/20 15:05	11/24/20 21:52	103-65-1	
Styrene	<0.0236	mg/kg	0.0236	0.000433	1	11/15/20 15:05	11/24/20 21:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00472	mg/kg	0.00472	0.00179	1	11/15/20 15:05	11/24/20 21:52	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00472	mg/kg	0.00472	0.00131	1	11/15/20 15:05	11/24/20 21:52	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00472	mg/kg	0.00472	0.00142	1	11/15/20 15:05	11/24/20 21:52	76-13-1	
Tetrachloroethene	<0.00472	mg/kg	0.00472	0.00169	1	11/15/20 15:05	11/24/20 21:52	127-18-4	
Toluene	0.00584J	mg/kg	0.00945	0.00246	1	11/15/20 15:05	11/24/20 21:52	108-88-3	J
1,2,3-Trichlorobenzene	<0.0236	mg/kg	0.0236	0.0138	1	11/15/20 15:05	11/24/20 21:52	87-61-6	
1,2,4-Trichlorobenzene	<0.0236	mg/kg	0.0236	0.00831	1	11/15/20 15:05	11/24/20 21:52	120-82-1	
1,1,1-Trichloroethane	<0.00472	mg/kg	0.00472	0.00174	1	11/15/20 15:05	11/24/20 21:52	71-55-6	
1,1,2-Trichloroethane	<0.00472	mg/kg	0.00472	0.00113	1	11/15/20 15:05	11/24/20 21:52	79-00-5	
Trichloroethene	<0.00189	mg/kg	0.00189	0.00110	1	11/15/20 15:05	11/24/20 21:52	79-01-6	
Trichlorofluoromethane	<0.00472	mg/kg	0.00472	0.00156	1	11/15/20 15:05	11/24/20 21:52	75-69-4	
1,2,3-Trichloropropane	<0.0236	mg/kg	0.0236	0.00306	1	11/15/20 15:05	11/24/20 21:52	96-18-4	
1,2,4-Trimethylbenzene	0.00316J	mg/kg	0.00945	0.00299	1	11/15/20 15:05	11/24/20 21:52	95-63-6	J
1,2,3-Trimethylbenzene	<0.00945	mg/kg	0.00945	0.00299	1	11/15/20 15:05	11/24/20 21:52	526-73-8	
1,3,5-Trimethylbenzene	<0.00945	mg/kg	0.00945	0.00378	1	11/15/20 15:05	11/24/20 21:52	108-67-8	
Vinyl chloride	<0.00472	mg/kg	0.00472	0.00219	1	11/15/20 15:05	11/24/20 21:52	75-01-4	
Xylene (Total)	0.00282J	mg/kg	0.0123	0.00166	1	11/15/20 15:05	11/24/20 21:52	1330-20-7	J
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	75.0-131		1	11/15/20 15:05	11/24/20 21:52	2037-26-5	
4-Bromofluorobenzene (S)	90.6	%	67.0-138		1	11/15/20 15:05	11/24/20 21:52	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130		1	11/15/20 15:05	11/24/20 21:52	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids **69.4** % 1 11/30/20 07:25 11/30/20 07:38

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

**Sample: 50-W**      **Lab ID: 92506486007**      Collected: 11/15/20 15:20      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	1300	mg/kg	34.4	11.5	4	11/15/20 15:20	11/24/20 12:36		
Aliphatic (C09-C12)	1360	mg/kg	34.4	11.5	4	11/15/20 15:20	11/24/20 12:36		
Aromatic (C09-C10), Unadjusted	567	mg/kg	34.4	11.5	4	11/15/20 15:20	11/24/20 12:36	TPHC9C10A	
Total VPH	3240	mg/kg	34.4	11.5	4	11/15/20 15:20	11/24/20 12:36	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	86.9	%	70.0-130		4	11/15/20 15:20	11/24/20 12:36	615-59-8FID	
2,5-Dibromotoluene (PID)	83.1	%	70.0-130		4	11/15/20 15:20	11/24/20 12:36	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<0.707	mg/kg	0.707	0.516	8	11/15/20 15:20	11/25/20 01:40	67-64-1	
Acrylonitrile	<0.177	mg/kg	0.177	0.0511	8	11/15/20 15:20	11/25/20 01:40	107-13-1	
Benzene	10.8	mg/kg	0.0141	0.00661	8	11/15/20 15:20	11/25/20 01:40	71-43-2	
Bromobenzene	<0.177	mg/kg	0.177	0.0127	8	11/15/20 15:20	11/25/20 01:40	108-86-1	
Bromodichloromethane	<0.0354	mg/kg	0.0354	0.0103	8	11/15/20 15:20	11/25/20 01:40	75-27-4	
Bromoform	<0.354	mg/kg	0.354	0.0165	8	11/15/20 15:20	11/25/20 01:40	75-25-2	
Bromomethane	<0.177	mg/kg	0.177	0.0279	8	11/15/20 15:20	11/25/20 01:40	74-83-9	
n-Butylbenzene	11.8	mg/kg	0.177	0.0742	8	11/15/20 15:20	11/25/20 01:40	104-51-8	
sec-Butylbenzene	4.10	mg/kg	0.177	0.0407	8	11/15/20 15:20	11/25/20 01:40	135-98-8	
tert-Butylbenzene	<0.0707	mg/kg	0.0707	0.0276	8	11/15/20 15:20	11/25/20 01:40	98-06-6	
Carbon tetrachloride	<0.0707	mg/kg	0.0707	0.0127	8	11/15/20 15:20	11/25/20 01:40	56-23-5	
Chlorobenzene	<0.0354	mg/kg	0.0354	0.00297	8	11/15/20 15:20	11/25/20 01:40	108-90-7	
Dibromochloromethane	<0.0354	mg/kg	0.0354	0.00866	8	11/15/20 15:20	11/25/20 01:40	124-48-1	
Chloroethane	<0.0707	mg/kg	0.0707	0.0240	8	11/15/20 15:20	11/25/20 01:40	75-00-3	
Chloroform	<0.0354	mg/kg	0.0354	0.0146	8	11/15/20 15:20	11/25/20 01:40	67-66-3	
Chloromethane	<0.177	mg/kg	0.177	0.0615	8	11/15/20 15:20	11/25/20 01:40	74-87-3	
2-Chlorotoluene	<0.0354	mg/kg	0.0354	0.0122	8	11/15/20 15:20	11/25/20 01:40	95-49-8	
4-Chlorotoluene	<0.0707	mg/kg	0.0707	0.00636	8	11/15/20 15:20	11/25/20 01:40	106-43-4	
1,2-Dibromo-3-chloropropane	<0.354	mg/kg	0.354	0.0551	8	11/15/20 15:20	11/25/20 01:40	96-12-8	
1,2-Dibromoethane (EDB)	<0.0354	mg/kg	0.0354	0.00916	8	11/15/20 15:20	11/25/20 01:40	106-93-4	
Dibromomethane	<0.0707	mg/kg	0.0707	0.0106	8	11/15/20 15:20	11/25/20 01:40	74-95-3	
1,2-Dichlorobenzene	<0.0707	mg/kg	0.0707	0.00601	8	11/15/20 15:20	11/25/20 01:40	95-50-1	
1,3-Dichlorobenzene	<0.0707	mg/kg	0.0707	0.00848	8	11/15/20 15:20	11/25/20 01:40	541-73-1	
1,4-Dichlorobenzene	<0.0707	mg/kg	0.0707	0.00990	8	11/15/20 15:20	11/25/20 01:40	106-46-7	
Dichlorodifluoromethane	<0.0354	mg/kg	0.0354	0.0228	8	11/15/20 15:20	11/25/20 01:40	75-71-8	
1,1-Dichloroethane	<0.0354	mg/kg	0.0354	0.00695	8	11/15/20 15:20	11/25/20 01:40	75-34-3	
1,2-Dichloroethane	<0.0354	mg/kg	0.0354	0.00917	8	11/15/20 15:20	11/25/20 01:40	107-06-2	
1,1-Dichloroethene	<0.0354	mg/kg	0.0354	0.00857	8	11/15/20 15:20	11/25/20 01:40	75-35-4	L0
cis-1,2-Dichloroethene	<0.0354	mg/kg	0.0354	0.0104	8	11/15/20 15:20	11/25/20 01:40	156-59-2	
trans-1,2-Dichloroethene	<0.0707	mg/kg	0.0707	0.0147	8	11/15/20 15:20	11/25/20 01:40	156-60-5	
1,2-Dichloropropane	<0.0707	mg/kg	0.0707	0.0202	8	11/15/20 15:20	11/25/20 01:40	78-87-5	
1,1-Dichloropropene	<0.0354	mg/kg	0.0354	0.0114	8	11/15/20 15:20	11/25/20 01:40	563-58-6	
1,3-Dichloropropane	<0.0707	mg/kg	0.0707	0.00709	8	11/15/20 15:20	11/25/20 01:40	142-28-9	
cis-1,3-Dichloropropene	<0.0354	mg/kg	0.0354	0.0107	8	11/15/20 15:20	11/25/20 01:40	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 50-W**      **Lab ID: 92506486007**      Collected: 11/15/20 15:20      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.0707	mg/kg	0.0707	0.0161	8	11/15/20 15:20	11/25/20 01:40	10061-02-6	
2,2-Dichloropropane	<0.0354	mg/kg	0.0354	0.0194	8	11/15/20 15:20	11/25/20 01:40	594-20-7	
Diisopropyl ether	<0.0141	mg/kg	0.0141	0.00580	8	11/15/20 15:20	11/25/20 01:40	108-20-3	
Ethylbenzene	130	mg/kg	1.77	0.521	400	11/15/20 15:20	11/27/20 16:21	100-41-4	
Hexachloro-1,3-butadiene	<0.354	mg/kg	0.354	0.0848	8	11/15/20 15:20	11/25/20 01:40	87-68-3	
Isopropylbenzene (Cumene)	11.1	mg/kg	0.0354	0.00601	8	11/15/20 15:20	11/25/20 01:40	98-82-8	
p-Isopropyltoluene	2.44	mg/kg	0.0707	0.0361	8	11/15/20 15:20	11/25/20 01:40	99-87-6	
2-Butanone (MEK)	<1.41	mg/kg	1.41	0.898	8	11/15/20 15:20	11/25/20 01:40	78-93-3	
Methylene Chloride	<0.354	mg/kg	0.354	0.0939	8	11/15/20 15:20	11/25/20 01:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.354	mg/kg	0.354	0.0322	8	11/15/20 15:20	11/25/20 01:40	108-10-1	
Methyl-tert-butyl ether	0.251	mg/kg	0.0141	0.00495	8	11/15/20 15:20	11/25/20 01:40	1634-04-4	
Naphthalene	22.8	mg/kg	0.177	0.0689	8	11/15/20 15:20	11/25/20 01:40	91-20-3	
n-Propylbenzene	45.2	mg/kg	3.54	0.672	400	11/15/20 15:20	11/27/20 16:21	103-65-1	
Styrene	<0.177	mg/kg	0.177	0.00323	8	11/15/20 15:20	11/25/20 01:40	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0354	mg/kg	0.0354	0.0134	8	11/15/20 15:20	11/25/20 01:40	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0354	mg/kg	0.0354	0.00983	8	11/15/20 15:20	11/25/20 01:40	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0354	mg/kg	0.0354	0.0107	8	11/15/20 15:20	11/25/20 01:40	76-13-1	
Tetrachloroethene	<0.0354	mg/kg	0.0354	0.0127	8	11/15/20 15:20	11/25/20 01:40	127-18-4	
Toluene	285	mg/kg	3.54	0.919	400	11/15/20 15:20	11/27/20 16:21	108-88-3	
1,2,3-Trichlorobenzene	<0.177	mg/kg	0.177	0.104	8	11/15/20 15:20	11/25/20 01:40	87-61-6	
1,2,4-Trichlorobenzene	<0.177	mg/kg	0.177	0.0622	8	11/15/20 15:20	11/25/20 01:40	120-82-1	
1,1,1-Trichloroethane	<0.0354	mg/kg	0.0354	0.0130	8	11/15/20 15:20	11/25/20 01:40	71-55-6	
1,1,2-Trichloroethane	<0.0354	mg/kg	0.0354	0.00845	8	11/15/20 15:20	11/25/20 01:40	79-00-5	
Trichloroethene	<0.0141	mg/kg	0.0141	0.00825	8	11/15/20 15:20	11/25/20 01:40	79-01-6	
Trichlorofluoromethane	<0.0354	mg/kg	0.0354	0.0117	8	11/15/20 15:20	11/25/20 01:40	75-69-4	
1,2,3-Trichloropropane	<0.177	mg/kg	0.177	0.0230	8	11/15/20 15:20	11/25/20 01:40	96-18-4	
1,2,4-Trimethylbenzene	219	mg/kg	3.54	1.12	400	11/15/20 15:20	11/27/20 16:21	95-63-6	
1,2,3-Trimethylbenzene	61.7	mg/kg	3.54	1.12	400	11/15/20 15:20	11/27/20 16:21	526-73-8	
1,3,5-Trimethylbenzene	63.8	mg/kg	3.54	1.41	400	11/15/20 15:20	11/27/20 16:21	108-67-8	
Vinyl chloride	<0.0354	mg/kg	0.0354	0.0164	8	11/15/20 15:20	11/25/20 01:40	75-01-4	
Xylene (Total)	735	mg/kg	4.60	0.622	400	11/15/20 15:20	11/27/20 16:21	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	105	%	75.0-131		8	11/15/20 15:20	11/25/20 01:40	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131		400	11/15/20 15:20	11/27/20 16:21	2037-26-5	
4-Bromofluorobenzene (S)	95.9	%	67.0-138		8	11/15/20 15:20	11/25/20 01:40	460-00-4	
4-Bromofluorobenzene (S)	93.7	%	67.0-138		400	11/15/20 15:20	11/27/20 16:21	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	70.0-130		8	11/15/20 15:20	11/25/20 01:40	17060-07-0	
1,2-Dichloroethane-d4 (S)	113	%	70.0-130		400	11/15/20 15:20	11/27/20 16:21	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G    Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	74.9	%			1	11/30/20 07:25	11/30/20 07:38		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 50-B**      **Lab ID: 92506486008**      Collected: 11/15/20 15:30      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	3.35J	mg/kg	8.59	2.87	1	11/15/20 15:30	11/24/20 13:09		J
Aliphatic (C09-C12)	4.55J	mg/kg	8.59	2.87	1	11/15/20 15:30	11/24/20 13:09		J
Aromatic (C09-C10), Unadjusted	<8.59	mg/kg	8.59	2.87	1	11/15/20 15:30	11/24/20 13:09	TPHC9C10A	
Total VPH	7.90J	mg/kg	8.59	2.87	1	11/15/20 15:30	11/24/20 13:09	VPH	J

**Surrogates**

2,5-Dibromotoluene (FID)	82.2	%	70.0-130		1	11/15/20 15:30	11/24/20 13:09	615-59-8FID	
2,5-Dibromotoluene (PID)	77.5	%	70.0-130		1	11/15/20 15:30	11/24/20 13:09	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<0.0851	mg/kg	0.0851	0.0621	1	11/15/20 15:30	11/24/20 22:11	67-64-1	
Acrylonitrile	<0.0213	mg/kg	0.0213	0.00614	1	11/15/20 15:30	11/24/20 22:11	107-13-1	
Benzene	0.00650	mg/kg	0.00170	0.000794	1	11/15/20 15:30	11/24/20 22:11	71-43-2	
Bromobenzene	<0.0213	mg/kg	0.0213	0.00153	1	11/15/20 15:30	11/24/20 22:11	108-86-1	
Bromodichloromethane	<0.00425	mg/kg	0.00425	0.00123	1	11/15/20 15:30	11/24/20 22:11	75-27-4	
Bromoform	<0.0425	mg/kg	0.0425	0.00199	1	11/15/20 15:30	11/24/20 22:11	75-25-2	
Bromomethane	<0.0213	mg/kg	0.0213	0.00335	1	11/15/20 15:30	11/24/20 22:11	74-83-9	
n-Butylbenzene	<0.0213	mg/kg	0.0213	0.00893	1	11/15/20 15:30	11/24/20 22:11	104-51-8	
sec-Butylbenzene	<0.0213	mg/kg	0.0213	0.00490	1	11/15/20 15:30	11/24/20 22:11	135-98-8	
tert-Butylbenzene	<0.00851	mg/kg	0.00851	0.00332	1	11/15/20 15:30	11/24/20 22:11	98-06-6	
Carbon tetrachloride	<0.00851	mg/kg	0.00851	0.00153	1	11/15/20 15:30	11/24/20 22:11	56-23-5	
Chlorobenzene	<0.00425	mg/kg	0.00425	0.000357	1	11/15/20 15:30	11/24/20 22:11	108-90-7	
Dibromochloromethane	<0.00425	mg/kg	0.00425	0.00104	1	11/15/20 15:30	11/24/20 22:11	124-48-1	
Chloroethane	<0.00851	mg/kg	0.00851	0.00289	1	11/15/20 15:30	11/24/20 22:11	75-00-3	
Chloroform	<0.00425	mg/kg	0.00425	0.00175	1	11/15/20 15:30	11/24/20 22:11	67-66-3	
Chloromethane	<0.0213	mg/kg	0.0213	0.00740	1	11/15/20 15:30	11/24/20 22:11	74-87-3	
2-Chlorotoluene	<0.00425	mg/kg	0.00425	0.00147	1	11/15/20 15:30	11/24/20 22:11	95-49-8	
4-Chlorotoluene	<0.00851	mg/kg	0.00851	0.000766	1	11/15/20 15:30	11/24/20 22:11	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0425	mg/kg	0.0425	0.00663	1	11/15/20 15:30	11/24/20 22:11	96-12-8	
1,2-Dibromoethane (EDB)	<0.00425	mg/kg	0.00425	0.00110	1	11/15/20 15:30	11/24/20 22:11	106-93-4	
Dibromomethane	<0.00851	mg/kg	0.00851	0.00128	1	11/15/20 15:30	11/24/20 22:11	74-95-3	
1,2-Dichlorobenzene	<0.00851	mg/kg	0.00851	0.000723	1	11/15/20 15:30	11/24/20 22:11	95-50-1	
1,3-Dichlorobenzene	<0.00851	mg/kg	0.00851	0.00102	1	11/15/20 15:30	11/24/20 22:11	541-73-1	
1,4-Dichlorobenzene	<0.00851	mg/kg	0.00851	0.00119	1	11/15/20 15:30	11/24/20 22:11	106-46-7	
Dichlorodifluoromethane	<0.00425	mg/kg	0.00425	0.00274	1	11/15/20 15:30	11/24/20 22:11	75-71-8	
1,1-Dichloroethane	<0.00425	mg/kg	0.00425	0.000835	1	11/15/20 15:30	11/24/20 22:11	75-34-3	
1,2-Dichloroethane	<0.00425	mg/kg	0.00425	0.00110	1	11/15/20 15:30	11/24/20 22:11	107-06-2	
1,1-Dichloroethene	<0.00425	mg/kg	0.00425	0.00103	1	11/15/20 15:30	11/24/20 22:11	75-35-4	L0
cis-1,2-Dichloroethene	<0.00425	mg/kg	0.00425	0.00125	1	11/15/20 15:30	11/24/20 22:11	156-59-2	
trans-1,2-Dichloroethene	<0.00851	mg/kg	0.00851	0.00177	1	11/15/20 15:30	11/24/20 22:11	156-60-5	
1,2-Dichloropropane	<0.00851	mg/kg	0.00851	0.00242	1	11/15/20 15:30	11/24/20 22:11	78-87-5	
1,1-Dichloropropene	<0.00425	mg/kg	0.00425	0.00138	1	11/15/20 15:30	11/24/20 22:11	563-58-6	
1,3-Dichloropropane	<0.00851	mg/kg	0.00851	0.000852	1	11/15/20 15:30	11/24/20 22:11	142-28-9	
cis-1,3-Dichloropropene	<0.00425	mg/kg	0.00425	0.00129	1	11/15/20 15:30	11/24/20 22:11	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 50-B Lab ID: 92506486008 Collected: 11/15/20 15:30 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00851	mg/kg	0.00851	0.00194	1	11/15/20 15:30	11/24/20 22:11	10061-02-6	
2,2-Dichloropropane	<0.00425	mg/kg	0.00425	0.00235	1	11/15/20 15:30	11/24/20 22:11	594-20-7	
Diisopropyl ether	<0.00170	mg/kg	0.00170	0.000697	1	11/15/20 15:30	11/24/20 22:11	108-20-3	
Ethylbenzene	0.00541	mg/kg	0.00425	0.00125	1	11/15/20 15:30	11/24/20 22:11	100-41-4	
Hexachloro-1,3-butadiene	<0.0425	mg/kg	0.0425	0.0102	1	11/15/20 15:30	11/24/20 22:11	87-68-3	
Isopropylbenzene (Cumene)	<0.00425	mg/kg	0.00425	0.000723	1	11/15/20 15:30	11/24/20 22:11	98-82-8	
p-Isopropyltoluene	<0.00851	mg/kg	0.00851	0.00434	1	11/15/20 15:30	11/24/20 22:11	99-87-6	
2-Butanone (MEK)	<0.170	mg/kg	0.170	0.108	1	11/15/20 15:30	11/24/20 22:11	78-93-3	
Methylene Chloride	<0.0425	mg/kg	0.0425	0.0113	1	11/15/20 15:30	11/24/20 22:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0425	mg/kg	0.0425	0.00388	1	11/15/20 15:30	11/24/20 22:11	108-10-1	
Methyl-tert-butyl ether	<0.00170	mg/kg	0.00170	0.000595	1	11/15/20 15:30	11/24/20 22:11	1634-04-4	
Naphthalene	<0.0213	mg/kg	0.0213	0.00830	1	11/15/20 15:30	11/24/20 22:11	91-20-3	
n-Propylbenzene	0.00185J	mg/kg	0.00851	0.00162	1	11/15/20 15:30	11/24/20 22:11	103-65-1	J
Styrene	<0.0213	mg/kg	0.0213	0.000390	1	11/15/20 15:30	11/24/20 22:11	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00425	mg/kg	0.00425	0.00161	1	11/15/20 15:30	11/24/20 22:11	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00425	mg/kg	0.00425	0.00118	1	11/15/20 15:30	11/24/20 22:11	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00425	mg/kg	0.00425	0.00128	1	11/15/20 15:30	11/24/20 22:11	76-13-1	
Tetrachloroethene	<0.00425	mg/kg	0.00425	0.00152	1	11/15/20 15:30	11/24/20 22:11	127-18-4	
Toluene	0.0446	mg/kg	0.00851	0.00221	1	11/15/20 15:30	11/24/20 22:11	108-88-3	
1,2,3-Trichlorobenzene	<0.0213	mg/kg	0.0213	0.0125	1	11/15/20 15:30	11/24/20 22:11	87-61-6	
1,2,4-Trichlorobenzene	<0.0213	mg/kg	0.0213	0.00749	1	11/15/20 15:30	11/24/20 22:11	120-82-1	
1,1,1-Trichloroethane	<0.00425	mg/kg	0.00425	0.00157	1	11/15/20 15:30	11/24/20 22:11	71-55-6	
1,1,2-Trichloroethane	<0.00425	mg/kg	0.00425	0.00102	1	11/15/20 15:30	11/24/20 22:11	79-00-5	
Trichloroethene	<0.00170	mg/kg	0.00170	0.000993	1	11/15/20 15:30	11/24/20 22:11	79-01-6	
Trichlorofluoromethane	<0.00425	mg/kg	0.00425	0.00141	1	11/15/20 15:30	11/24/20 22:11	75-69-4	
1,2,3-Trichloropropane	<0.0213	mg/kg	0.0213	0.00276	1	11/15/20 15:30	11/24/20 22:11	96-18-4	
1,2,4-Trimethylbenzene	0.0145	mg/kg	0.00851	0.00269	1	11/15/20 15:30	11/24/20 22:11	95-63-6	
1,2,3-Trimethylbenzene	0.00464J	mg/kg	0.00851	0.00269	1	11/15/20 15:30	11/24/20 22:11	526-73-8	J
1,3,5-Trimethylbenzene	0.00747J	mg/kg	0.00851	0.00340	1	11/15/20 15:30	11/24/20 22:11	108-67-8	J
Vinyl chloride	<0.00425	mg/kg	0.00425	0.00197	1	11/15/20 15:30	11/24/20 22:11	75-01-4	
Xylene (Total)	0.0487	mg/kg	0.0111	0.00150	1	11/15/20 15:30	11/24/20 22:11	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		1	11/15/20 15:30	11/24/20 22:11	2037-26-5	
4-Bromofluorobenzene (S)	91.6	%	67.0-138		1	11/15/20 15:30	11/24/20 22:11	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130		1	11/15/20 15:30	11/24/20 22:11	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids **74.6** % 1 11/30/20 07:25 11/30/20 07:38

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

Sample: 50-E Lab ID: 92506486009 Collected: 11/15/20 16:50 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	5.30J	mg/kg	8.99	3.00	1	11/15/20 16:50	12/01/20 07:05		J
Aliphatic (C09-C12)	<8.99	mg/kg	8.99	3.00	1	11/15/20 16:50	12/01/20 07:05		
Aromatic (C09-C10), Unadjusted	<8.99	mg/kg	8.99	3.00	1	11/15/20 16:50	12/01/20 07:05	TPHC9C10A	
Total VPH	5.30J	mg/kg	8.99	3.00	1	11/15/20 16:50	12/01/20 07:05	VPH	J
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	90.3	%	70.0-130		1	11/15/20 16:50	12/01/20 07:05	615-59-8FID	
2,5-Dibromotoluene (PID)	85.7	%	70.0-130		1	11/15/20 16:50	12/01/20 07:05	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.716	mg/kg	0.716	0.523	8	11/15/20 16:50	11/25/20 01:59	67-64-1	
Acrylonitrile	<0.179	mg/kg	0.179	0.0517	8	11/15/20 16:50	11/25/20 01:59	107-13-1	
Benzene	0.0281	mg/kg	0.0143	0.00670	8	11/15/20 16:50	11/25/20 01:59	71-43-2	
Bromobenzene	<0.179	mg/kg	0.179	0.0129	8	11/15/20 16:50	11/25/20 01:59	108-86-1	
Bromodichloromethane	<0.0358	mg/kg	0.0358	0.0104	8	11/15/20 16:50	11/25/20 01:59	75-27-4	
Bromoform	<0.358	mg/kg	0.358	0.0168	8	11/15/20 16:50	11/25/20 01:59	75-25-2	
Bromomethane	<0.179	mg/kg	0.179	0.0283	8	11/15/20 16:50	11/25/20 01:59	74-83-9	
n-Butylbenzene	0.240	mg/kg	0.179	0.0752	8	11/15/20 16:50	11/25/20 01:59	104-51-8	
sec-Butylbenzene	0.0542J	mg/kg	0.179	0.0412	8	11/15/20 16:50	11/25/20 01:59	135-98-8	J
tert-Butylbenzene	<0.0716	mg/kg	0.0716	0.0279	8	11/15/20 16:50	11/25/20 01:59	98-06-6	
Carbon tetrachloride	<0.0716	mg/kg	0.0716	0.0129	8	11/15/20 16:50	11/25/20 01:59	56-23-5	
Chlorobenzene	<0.0358	mg/kg	0.0358	0.00301	8	11/15/20 16:50	11/25/20 01:59	108-90-7	
Dibromochloromethane	<0.0358	mg/kg	0.0358	0.00877	8	11/15/20 16:50	11/25/20 01:59	124-48-1	
Chloroethane	<0.0716	mg/kg	0.0716	0.0243	8	11/15/20 16:50	11/25/20 01:59	75-00-3	
Chloroform	<0.0358	mg/kg	0.0358	0.0148	8	11/15/20 16:50	11/25/20 01:59	67-66-3	
Chloromethane	<0.179	mg/kg	0.179	0.0623	8	11/15/20 16:50	11/25/20 01:59	74-87-3	
2-Chlorotoluene	<0.0358	mg/kg	0.0358	0.0124	8	11/15/20 16:50	11/25/20 01:59	95-49-8	
4-Chlorotoluene	<0.0716	mg/kg	0.0716	0.00645	8	11/15/20 16:50	11/25/20 01:59	106-43-4	
1,2-Dibromo-3-chloropropane	<0.358	mg/kg	0.358	0.0559	8	11/15/20 16:50	11/25/20 01:59	96-12-8	
1,2-Dibromoethane (EDB)	<0.0358	mg/kg	0.0358	0.00927	8	11/15/20 16:50	11/25/20 01:59	106-93-4	
Dibromomethane	<0.0716	mg/kg	0.0716	0.0107	8	11/15/20 16:50	11/25/20 01:59	74-95-3	
1,2-Dichlorobenzene	<0.0716	mg/kg	0.0716	0.00609	8	11/15/20 16:50	11/25/20 01:59	95-50-1	
1,3-Dichlorobenzene	<0.0716	mg/kg	0.0716	0.00859	8	11/15/20 16:50	11/25/20 01:59	541-73-1	
1,4-Dichlorobenzene	<0.0716	mg/kg	0.0716	0.0100	8	11/15/20 16:50	11/25/20 01:59	106-46-7	
Dichlorodifluoromethane	<0.0358	mg/kg	0.0358	0.0231	8	11/15/20 16:50	11/25/20 01:59	75-71-8	
1,1-Dichloroethane	<0.0358	mg/kg	0.0358	0.00704	8	11/15/20 16:50	11/25/20 01:59	75-34-3	
1,2-Dichloroethane	<0.0358	mg/kg	0.0358	0.00929	8	11/15/20 16:50	11/25/20 01:59	107-06-2	
1,1-Dichloroethene	<0.0358	mg/kg	0.0358	0.00868	8	11/15/20 16:50	11/25/20 01:59	75-35-4	LO
cis-1,2-Dichloroethene	<0.0358	mg/kg	0.0358	0.0105	8	11/15/20 16:50	11/25/20 01:59	156-59-2	
trans-1,2-Dichloroethene	<0.0716	mg/kg	0.0716	0.0149	8	11/15/20 16:50	11/25/20 01:59	156-60-5	
1,2-Dichloropropane	<0.0716	mg/kg	0.0716	0.0204	8	11/15/20 16:50	11/25/20 01:59	78-87-5	
1,1-Dichloropropene	<0.0358	mg/kg	0.0358	0.0116	8	11/15/20 16:50	11/25/20 01:59	563-58-6	
1,3-Dichloropropane	<0.0716	mg/kg	0.0716	0.00718	8	11/15/20 16:50	11/25/20 01:59	142-28-9	
cis-1,3-Dichloropropene	<0.0358	mg/kg	0.0358	0.0108	8	11/15/20 16:50	11/25/20 01:59	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 50-E**      **Lab ID: 92506486009**      Collected: 11/15/20 16:50      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>			Analytical Method: EPA 8260D    Preparation Method: 5035A Pace National - Mt. Juliet						
trans-1,3-Dichloropropene	<0.0716	mg/kg	0.0716	0.0163	8	11/15/20 16:50	11/25/20 01:59	10061-02-6	
2,2-Dichloropropane	<0.0358	mg/kg	0.0358	0.0197	8	11/15/20 16:50	11/25/20 01:59	594-20-7	
Diisopropyl ether	<0.0143	mg/kg	0.0143	0.00587	8	11/15/20 16:50	11/25/20 01:59	108-20-3	
Ethylbenzene	0.0115J	mg/kg	0.0358	0.0106	8	11/15/20 16:50	11/27/20 16:02	100-41-4	J
Hexachloro-1,3-butadiene	<0.358	mg/kg	0.358	0.0859	8	11/15/20 16:50	11/25/20 01:59	87-68-3	
Isopropylbenzene (Cumene)	0.0392	mg/kg	0.0358	0.00609	8	11/15/20 16:50	11/25/20 01:59	98-82-8	
p-Isopropyltoluene	<0.0716	mg/kg	0.0716	0.0365	8	11/15/20 16:50	11/25/20 01:59	99-87-6	
2-Butanone (MEK)	<1.43	mg/kg	1.43	0.909	8	11/15/20 16:50	11/25/20 01:59	78-93-3	
Methylene Chloride	<0.358	mg/kg	0.358	0.0951	8	11/15/20 16:50	11/25/20 01:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.358	mg/kg	0.358	0.0326	8	11/15/20 16:50	11/25/20 01:59	108-10-1	
Methyl-tert-butyl ether	<0.0143	mg/kg	0.0143	0.00501	8	11/15/20 16:50	11/25/20 01:59	1634-04-4	
Naphthalene	1.03	mg/kg	0.179	0.0698	8	11/15/20 16:50	11/25/20 01:59	91-20-3	
n-Propylbenzene	<0.0716	mg/kg	0.0716	0.0136	8	11/15/20 16:50	11/27/20 16:02	103-65-1	
Styrene	<0.179	mg/kg	0.179	0.00328	8	11/15/20 16:50	11/25/20 01:59	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0358	mg/kg	0.0358	0.0136	8	11/15/20 16:50	11/25/20 01:59	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0358	mg/kg	0.0358	0.00995	8	11/15/20 16:50	11/25/20 01:59	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0358	mg/kg	0.0358	0.0108	8	11/15/20 16:50	11/25/20 01:59	76-13-1	
Tetrachloroethene	<0.0358	mg/kg	0.0358	0.0128	8	11/15/20 16:50	11/25/20 01:59	127-18-4	
Toluene	0.0682J	mg/kg	0.0716	0.0186	8	11/15/20 16:50	11/27/20 16:02	108-88-3	J
1,2,3-Trichlorobenzene	<0.179	mg/kg	0.179	0.105	8	11/15/20 16:50	11/25/20 01:59	87-61-6	
1,2,4-Trichlorobenzene	<0.179	mg/kg	0.179	0.0630	8	11/15/20 16:50	11/25/20 01:59	120-82-1	
1,1,1-Trichloroethane	<0.0358	mg/kg	0.0358	0.0132	8	11/15/20 16:50	11/25/20 01:59	71-55-6	
1,1,2-Trichloroethane	<0.0358	mg/kg	0.0358	0.00856	8	11/15/20 16:50	11/25/20 01:59	79-00-5	
Trichloroethene	<0.0143	mg/kg	0.0143	0.00836	8	11/15/20 16:50	11/25/20 01:59	79-01-6	
Trichlorofluoromethane	<0.0358	mg/kg	0.0358	0.0119	8	11/15/20 16:50	11/25/20 01:59	75-69-4	
1,2,3-Trichloropropane	<0.179	mg/kg	0.179	0.0233	8	11/15/20 16:50	11/25/20 01:59	96-18-4	
1,2,4-Trimethylbenzene	0.0498J	mg/kg	0.0716	0.0226	8	11/15/20 16:50	11/27/20 16:02	95-63-6	J
1,2,3-Trimethylbenzene	<0.0716	mg/kg	0.0716	0.0226	8	11/15/20 16:50	11/27/20 16:02	526-73-8	
1,3,5-Trimethylbenzene	<0.0716	mg/kg	0.0716	0.0286	8	11/15/20 16:50	11/27/20 16:02	108-67-8	
Vinyl chloride	<0.0358	mg/kg	0.0358	0.0166	8	11/15/20 16:50	11/25/20 01:59	75-01-4	
Xylene (Total)	0.0510J	mg/kg	0.0931	0.0126	8	11/15/20 16:50	11/27/20 16:02	1330-20-7	J
<b>Surrogates</b>									
Toluene-d8 (S)	106	%	75.0-131		8	11/15/20 16:50	11/25/20 01:59	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131		8	11/15/20 16:50	11/27/20 16:02	2037-26-5	
4-Bromofluorobenzene (S)	93.3	%	67.0-138		8	11/15/20 16:50	11/25/20 01:59	460-00-4	
4-Bromofluorobenzene (S)	95.7	%	67.0-138		8	11/15/20 16:50	11/27/20 16:02	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70.0-130		8	11/15/20 16:50	11/25/20 01:59	17060-07-0	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130		8	11/15/20 16:50	11/27/20 16:02	17060-07-0	
<b>Total Solids 2540 G-2011</b>			Analytical Method: SM 2540G    Preparation Method: SM 2540 G Pace National - Mt. Juliet						
Total Solids	73.1	%			1	11/30/20 07:25	11/30/20 07:38		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 75-W**      **Lab ID: 92506486010**      Collected: 11/16/20 13:10      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEP VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	3960	mg/kg	35.5	11.8	4.44	11/16/20 13:10	11/24/20 14:15		
Aliphatic (C09-C12)	4460	mg/kg	355	118	44.4	11/16/20 13:10	12/01/20 10:25		
Aromatic (C09-C10), Unadjusted	2010	mg/kg	355	118	44.4	11/16/20 13:10	12/01/20 10:25	TPHC9C10A	
Total VPH	10400	mg/kg	355	118	44.4	11/16/20 13:10	12/01/20 10:25	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	87.4	%	70.0-130		4.44	11/16/20 13:10	11/24/20 14:15	615-59-8FID	
2,5-Dibromotoluene (FID)	94.5	%	70.0-130		44.4	11/16/20 13:10	12/01/20 10:25	615-59-8FID	
2,5-Dibromotoluene (PID)	77.5	%	70.0-130		4.44	11/16/20 13:10	11/24/20 14:15	615-59-8PID	
2,5-Dibromotoluene (PID)	89.3	%	70.0-130		44.4	11/16/20 13:10	12/01/20 10:25	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.659	mg/kg	0.659	0.481	8	11/16/20 13:10	11/25/20 02:18	67-64-1	
Acrylonitrile	<0.165	mg/kg	0.165	0.0476	8	11/16/20 13:10	11/25/20 02:18	107-13-1	
Benzene	7.53	mg/kg	0.0132	0.00616	8	11/16/20 13:10	11/25/20 02:18	71-43-2	
Bromobenzene	<0.165	mg/kg	0.165	0.0119	8	11/16/20 13:10	11/25/20 02:18	108-86-1	
Bromodichloromethane	<0.0330	mg/kg	0.0330	0.00956	8	11/16/20 13:10	11/25/20 02:18	75-27-4	
Bromoform	<0.330	mg/kg	0.330	0.0154	8	11/16/20 13:10	11/25/20 02:18	75-25-2	
Bromomethane	<0.165	mg/kg	0.165	0.0260	8	11/16/20 13:10	11/25/20 02:18	74-83-9	
n-Butylbenzene	6.61	mg/kg	0.165	0.0692	8	11/16/20 13:10	11/25/20 02:18	104-51-8	
sec-Butylbenzene	2.78	mg/kg	0.165	0.0379	8	11/16/20 13:10	11/25/20 02:18	135-98-8	
tert-Butylbenzene	<0.0659	mg/kg	0.0659	0.0257	8	11/16/20 13:10	11/25/20 02:18	98-06-6	
Carbon tetrachloride	<0.0659	mg/kg	0.0659	0.0118	8	11/16/20 13:10	11/25/20 02:18	56-23-5	
Chlorobenzene	<0.0330	mg/kg	0.0330	0.00277	8	11/16/20 13:10	11/25/20 02:18	108-90-7	
Dibromochloromethane	<0.0330	mg/kg	0.0330	0.00807	8	11/16/20 13:10	11/25/20 02:18	124-48-1	
Chloroethane	<0.0659	mg/kg	0.0659	0.0224	8	11/16/20 13:10	11/25/20 02:18	75-00-3	
Chloroform	<0.0330	mg/kg	0.0330	0.0136	8	11/16/20 13:10	11/25/20 02:18	67-66-3	
Chloromethane	<0.165	mg/kg	0.165	0.0573	8	11/16/20 13:10	11/25/20 02:18	74-87-3	
2-Chlorotoluene	<0.0330	mg/kg	0.0330	0.0114	8	11/16/20 13:10	11/25/20 02:18	95-49-8	
4-Chlorotoluene	<0.0659	mg/kg	0.0659	0.00593	8	11/16/20 13:10	11/25/20 02:18	106-43-4	
1,2-Dibromo-3-chloropropane	<0.330	mg/kg	0.330	0.0514	8	11/16/20 13:10	11/25/20 02:18	96-12-8	
1,2-Dibromoethane (EDB)	<0.0330	mg/kg	0.0330	0.00853	8	11/16/20 13:10	11/25/20 02:18	106-93-4	
Dibromomethane	<0.0659	mg/kg	0.0659	0.00989	8	11/16/20 13:10	11/25/20 02:18	74-95-3	
1,2-Dichlorobenzene	<0.0659	mg/kg	0.0659	0.00560	8	11/16/20 13:10	11/25/20 02:18	95-50-1	
1,3-Dichlorobenzene	<0.0659	mg/kg	0.0659	0.00791	8	11/16/20 13:10	11/25/20 02:18	541-73-1	
1,4-Dichlorobenzene	<0.0659	mg/kg	0.0659	0.00923	8	11/16/20 13:10	11/25/20 02:18	106-46-7	
Dichlorodifluoromethane	<0.0330	mg/kg	0.0330	0.0213	8	11/16/20 13:10	11/25/20 02:18	75-71-8	
1,1-Dichloroethane	<0.0330	mg/kg	0.0330	0.00648	8	11/16/20 13:10	11/25/20 02:18	75-34-3	
1,2-Dichloroethane	<0.0330	mg/kg	0.0330	0.00855	8	11/16/20 13:10	11/25/20 02:18	107-06-2	
1,1-Dichloroethene	<0.0330	mg/kg	0.0330	0.00799	8	11/16/20 13:10	11/25/20 02:18	75-35-4	LO
cis-1,2-Dichloroethene	<0.0330	mg/kg	0.0330	0.00967	8	11/16/20 13:10	11/25/20 02:18	156-59-2	
trans-1,2-Dichloroethene	<0.0659	mg/kg	0.0659	0.0137	8	11/16/20 13:10	11/25/20 02:18	156-60-5	
1,2-Dichloropropane	<0.0659	mg/kg	0.0659	0.0188	8	11/16/20 13:10	11/25/20 02:18	78-87-5	
1,1-Dichloropropene	<0.0330	mg/kg	0.0330	0.0107	8	11/16/20 13:10	11/25/20 02:18	563-58-6	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 75-W Lab ID: 92506486010 Collected: 11/16/20 13:10 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.0659	mg/kg	0.0659	0.00661	8	11/16/20 13:10	11/25/20 02:18	142-28-9	
cis-1,3-Dichloropropene	<0.0330	mg/kg	0.0330	0.00998	8	11/16/20 13:10	11/25/20 02:18	10061-01-5	
trans-1,3-Dichloropropene	<0.0659	mg/kg	0.0659	0.0150	8	11/16/20 13:10	11/25/20 02:18	10061-02-6	
2,2-Dichloropropane	<0.0330	mg/kg	0.0330	0.0181	8	11/16/20 13:10	11/25/20 02:18	594-20-7	
Diisopropyl ether	<0.0132	mg/kg	0.0132	0.00540	8	11/16/20 13:10	11/25/20 02:18	108-20-3	
Ethylbenzene	60.6	mg/kg	0.824	0.242	200	11/16/20 13:10	11/27/20 16:40	100-41-4	
Hexachloro-1,3-butadiene	<0.330	mg/kg	0.330	0.0791	8	11/16/20 13:10	11/25/20 02:18	87-68-3	
Isopropylbenzene (Cumene)	7.43	mg/kg	0.0330	0.00560	8	11/16/20 13:10	11/25/20 02:18	98-82-8	
p-Isopropyltoluene	1.56	mg/kg	0.0659	0.0336	8	11/16/20 13:10	11/25/20 02:18	99-87-6	
2-Butanone (MEK)	<1.32	mg/kg	1.32	0.837	8	11/16/20 13:10	11/25/20 02:18	78-93-3	
Methylene Chloride	<0.330	mg/kg	0.330	0.0875	8	11/16/20 13:10	11/25/20 02:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.330	mg/kg	0.330	0.0300	8	11/16/20 13:10	11/25/20 02:18	108-10-1	
Methyl-tert-butyl ether	0.149	mg/kg	0.0132	0.00461	8	11/16/20 13:10	11/25/20 02:18	1634-04-4	
Naphthalene	15.7	mg/kg	0.165	0.0643	8	11/16/20 13:10	11/25/20 02:18	91-20-3	
n-Propylbenzene	29.2	mg/kg	0.0659	0.0125	8	11/16/20 13:10	11/25/20 02:18	103-65-1	C5
Styrene	<0.165	mg/kg	0.165	0.00302	8	11/16/20 13:10	11/25/20 02:18	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0330	mg/kg	0.0330	0.0125	8	11/16/20 13:10	11/25/20 02:18	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0330	mg/kg	0.0330	0.00916	8	11/16/20 13:10	11/25/20 02:18	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0330	mg/kg	0.0330	0.00994	8	11/16/20 13:10	11/25/20 02:18	76-13-1	
Tetrachloroethene	<0.0330	mg/kg	0.0330	0.0118	8	11/16/20 13:10	11/25/20 02:18	127-18-4	
Toluene	148	mg/kg	1.65	0.428	200	11/16/20 13:10	11/27/20 16:40	108-88-3	
1,2,3-Trichlorobenzene	<0.165	mg/kg	0.165	0.0966	8	11/16/20 13:10	11/25/20 02:18	87-61-6	
1,2,4-Trichlorobenzene	<0.165	mg/kg	0.165	0.0580	8	11/16/20 13:10	11/25/20 02:18	120-82-1	
1,1,1-Trichloroethane	<0.0330	mg/kg	0.0330	0.0122	8	11/16/20 13:10	11/25/20 02:18	71-55-6	
1,1,2-Trichloroethane	<0.0330	mg/kg	0.0330	0.00788	8	11/16/20 13:10	11/25/20 02:18	79-00-5	
Trichloroethene	<0.0132	mg/kg	0.0132	0.00769	8	11/16/20 13:10	11/25/20 02:18	79-01-6	
Trichlorofluoromethane	<0.0330	mg/kg	0.0330	0.0109	8	11/16/20 13:10	11/25/20 02:18	75-69-4	
1,2,3-Trichloropropane	<0.165	mg/kg	0.165	0.0214	8	11/16/20 13:10	11/25/20 02:18	96-18-4	
1,2,4-Trimethylbenzene	143	mg/kg	1.65	0.521	200	11/16/20 13:10	11/27/20 16:40	95-63-6	
1,2,3-Trimethylbenzene	40.5	mg/kg	1.65	0.521	200	11/16/20 13:10	11/27/20 16:40	526-73-8	
1,3,5-Trimethylbenzene	40.0	mg/kg	1.65	0.659	200	11/16/20 13:10	11/27/20 16:40	108-67-8	
Vinyl chloride	<0.0330	mg/kg	0.0330	0.0153	8	11/16/20 13:10	11/25/20 02:18	75-01-4	
Xylene (Total)	346	mg/kg	2.14	0.290	200	11/16/20 13:10	11/27/20 16:40	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		8	11/16/20 13:10	11/25/20 02:18	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131		200	11/16/20 13:10	11/27/20 16:40	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67.0-138		8	11/16/20 13:10	11/25/20 02:18	460-00-4	
4-Bromofluorobenzene (S)	93.4	%	67.0-138		200	11/16/20 13:10	11/27/20 16:40	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70.0-130		8	11/16/20 13:10	11/25/20 02:18	17060-07-0	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130		200	11/16/20 13:10	11/27/20 16:40	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids 76.1 % 1 11/30/20 07:25 11/30/20 07:38

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

**Sample: 75-B**      **Lab ID: 92506486011**      Collected: 11/16/20 13:19      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	3.34J	mg/kg	8.30	2.77	1	11/16/20 13:19	12/01/20 07:39		J
Aliphatic (C09-C12)	3.42J	mg/kg	8.30	2.77	1	11/16/20 13:19	12/01/20 07:39		J
Aromatic (C09-C10), Unadjusted	<8.30	mg/kg	8.30	2.77	1	11/16/20 13:19	12/01/20 07:39	TPHC9C10A	
Total VPH	6.76J	mg/kg	8.30	2.77	1	11/16/20 13:19	12/01/20 07:39	VPH	J
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	94.6	%	70.0-130		1	11/16/20 13:19	12/01/20 07:39	615-59-8FID	
2,5-Dibromotoluene (PID)	88.8	%	70.0-130		1	11/16/20 13:19	12/01/20 07:39	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.0850	mg/kg	0.0850	0.0621	1	11/16/20 13:19	11/24/20 22:30	67-64-1	
Acrylonitrile	<0.0213	mg/kg	0.0213	0.00614	1	11/16/20 13:19	11/24/20 22:30	107-13-1	
Benzene	0.00534	mg/kg	0.00170	0.000794	1	11/16/20 13:19	11/24/20 22:30	71-43-2	
Bromobenzene	<0.0213	mg/kg	0.0213	0.00153	1	11/16/20 13:19	11/24/20 22:30	108-86-1	
Bromodichloromethane	<0.00425	mg/kg	0.00425	0.00123	1	11/16/20 13:19	11/24/20 22:30	75-27-4	
Bromoform	<0.0425	mg/kg	0.0425	0.00199	1	11/16/20 13:19	11/24/20 22:30	75-25-2	
Bromomethane	<0.0213	mg/kg	0.0213	0.00335	1	11/16/20 13:19	11/24/20 22:30	74-83-9	
n-Butylbenzene	<0.0213	mg/kg	0.0213	0.00893	1	11/16/20 13:19	11/24/20 22:30	104-51-8	
sec-Butylbenzene	<0.0213	mg/kg	0.0213	0.00490	1	11/16/20 13:19	11/24/20 22:30	135-98-8	
tert-Butylbenzene	<0.00850	mg/kg	0.00850	0.00332	1	11/16/20 13:19	11/24/20 22:30	98-06-6	
Carbon tetrachloride	<0.00850	mg/kg	0.00850	0.00153	1	11/16/20 13:19	11/24/20 22:30	56-23-5	
Chlorobenzene	<0.00425	mg/kg	0.00425	0.000357	1	11/16/20 13:19	11/24/20 22:30	108-90-7	
Dibromochloromethane	<0.00425	mg/kg	0.00425	0.00104	1	11/16/20 13:19	11/24/20 22:30	124-48-1	
Chloroethane	<0.00850	mg/kg	0.00850	0.00289	1	11/16/20 13:19	11/24/20 22:30	75-00-3	
Chloroform	<0.00425	mg/kg	0.00425	0.00175	1	11/16/20 13:19	11/24/20 22:30	67-66-3	
Chloromethane	<0.0213	mg/kg	0.0213	0.00740	1	11/16/20 13:19	11/24/20 22:30	74-87-3	
2-Chlorotoluene	<0.00425	mg/kg	0.00425	0.00147	1	11/16/20 13:19	11/24/20 22:30	95-49-8	
4-Chlorotoluene	<0.00850	mg/kg	0.00850	0.000765	1	11/16/20 13:19	11/24/20 22:30	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0425	mg/kg	0.0425	0.00663	1	11/16/20 13:19	11/24/20 22:30	96-12-8	
1,2-Dibromoethane (EDB)	<0.00425	mg/kg	0.00425	0.00110	1	11/16/20 13:19	11/24/20 22:30	106-93-4	
Dibromomethane	<0.00850	mg/kg	0.00850	0.00128	1	11/16/20 13:19	11/24/20 22:30	74-95-3	
1,2-Dichlorobenzene	<0.00850	mg/kg	0.00850	0.000723	1	11/16/20 13:19	11/24/20 22:30	95-50-1	
1,3-Dichlorobenzene	<0.00850	mg/kg	0.00850	0.00102	1	11/16/20 13:19	11/24/20 22:30	541-73-1	
1,4-Dichlorobenzene	<0.00850	mg/kg	0.00850	0.00119	1	11/16/20 13:19	11/24/20 22:30	106-46-7	
Dichlorodifluoromethane	<0.00425	mg/kg	0.00425	0.00274	1	11/16/20 13:19	11/24/20 22:30	75-71-8	
1,1-Dichloroethane	<0.00425	mg/kg	0.00425	0.000835	1	11/16/20 13:19	11/24/20 22:30	75-34-3	
1,2-Dichloroethane	<0.00425	mg/kg	0.00425	0.00110	1	11/16/20 13:19	11/24/20 22:30	107-06-2	
1,1-Dichloroethene	<0.00425	mg/kg	0.00425	0.00103	1	11/16/20 13:19	11/24/20 22:30	75-35-4	L0
cis-1,2-Dichloroethene	<0.00425	mg/kg	0.00425	0.00125	1	11/16/20 13:19	11/24/20 22:30	156-59-2	
trans-1,2-Dichloroethene	<0.00850	mg/kg	0.00850	0.00177	1	11/16/20 13:19	11/24/20 22:30	156-60-5	
1,2-Dichloropropane	<0.00850	mg/kg	0.00850	0.00242	1	11/16/20 13:19	11/24/20 22:30	78-87-5	
1,1-Dichloropropene	<0.00425	mg/kg	0.00425	0.00138	1	11/16/20 13:19	11/24/20 22:30	563-58-6	
1,3-Dichloropropane	<0.00850	mg/kg	0.00850	0.000852	1	11/16/20 13:19	11/24/20 22:30	142-28-9	
cis-1,3-Dichloropropene	<0.00425	mg/kg	0.00425	0.00129	1	11/16/20 13:19	11/24/20 22:30	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 75-B Lab ID: 92506486011 Collected: 11/16/20 13:19 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00850	mg/kg	0.00850	0.00194	1	11/16/20 13:19	11/24/20 22:30	10061-02-6	
2,2-Dichloropropane	<0.00425	mg/kg	0.00425	0.00235	1	11/16/20 13:19	11/24/20 22:30	594-20-7	
Diisopropyl ether	<0.00170	mg/kg	0.00170	0.000697	1	11/16/20 13:19	11/24/20 22:30	108-20-3	
Ethylbenzene	<0.00425	mg/kg	0.00425	0.00125	1	11/16/20 13:19	11/24/20 22:30	100-41-4	
Hexachloro-1,3-butadiene	<0.0425	mg/kg	0.0425	0.0102	1	11/16/20 13:19	11/24/20 22:30	87-68-3	
Isopropylbenzene (Cumene)	<0.00425	mg/kg	0.00425	0.000723	1	11/16/20 13:19	11/24/20 22:30	98-82-8	
p-Isopropyltoluene	<0.00850	mg/kg	0.00850	0.00434	1	11/16/20 13:19	11/24/20 22:30	99-87-6	
2-Butanone (MEK)	<0.170	mg/kg	0.170	0.108	1	11/16/20 13:19	11/24/20 22:30	78-93-3	
Methylene Chloride	<0.0425	mg/kg	0.0425	0.0113	1	11/16/20 13:19	11/24/20 22:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0425	mg/kg	0.0425	0.00388	1	11/16/20 13:19	11/24/20 22:30	108-10-1	
Methyl-tert-butyl ether	0.000623J	mg/kg	0.00170	0.000595	1	11/16/20 13:19	11/24/20 22:30	1634-04-4	J
Naphthalene	<0.0213	mg/kg	0.0213	0.00830	1	11/16/20 13:19	11/24/20 22:30	91-20-3	
n-Propylbenzene	<0.00850	mg/kg	0.00850	0.00162	1	11/16/20 13:19	11/24/20 22:30	103-65-1	
Styrene	<0.0213	mg/kg	0.0213	0.000389	1	11/16/20 13:19	11/24/20 22:30	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00425	mg/kg	0.00425	0.00161	1	11/16/20 13:19	11/24/20 22:30	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00425	mg/kg	0.00425	0.00118	1	11/16/20 13:19	11/24/20 22:30	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00425	mg/kg	0.00425	0.00128	1	11/16/20 13:19	11/24/20 22:30	76-13-1	
Tetrachloroethene	<0.00425	mg/kg	0.00425	0.00152	1	11/16/20 13:19	11/24/20 22:30	127-18-4	
Toluene	0.0182	mg/kg	0.00850	0.00221	1	11/16/20 13:19	11/24/20 22:30	108-88-3	
1,2,3-Trichlorobenzene	<0.0213	mg/kg	0.0213	0.0125	1	11/16/20 13:19	11/24/20 22:30	87-61-6	
1,2,4-Trichlorobenzene	<0.0213	mg/kg	0.0213	0.00748	1	11/16/20 13:19	11/24/20 22:30	120-82-1	
1,1,1-Trichloroethane	<0.00425	mg/kg	0.00425	0.00157	1	11/16/20 13:19	11/24/20 22:30	71-55-6	
1,1,2-Trichloroethane	<0.00425	mg/kg	0.00425	0.00102	1	11/16/20 13:19	11/24/20 22:30	79-00-5	
Trichloroethene	<0.00170	mg/kg	0.00170	0.000993	1	11/16/20 13:19	11/24/20 22:30	79-01-6	
Trichlorofluoromethane	<0.00425	mg/kg	0.00425	0.00141	1	11/16/20 13:19	11/24/20 22:30	75-69-4	
1,2,3-Trichloropropane	<0.0213	mg/kg	0.0213	0.00276	1	11/16/20 13:19	11/24/20 22:30	96-18-4	
1,2,4-Trimethylbenzene	<0.00850	mg/kg	0.00850	0.00269	1	11/16/20 13:19	11/24/20 22:30	95-63-6	
1,2,3-Trimethylbenzene	<0.00850	mg/kg	0.00850	0.00269	1	11/16/20 13:19	11/24/20 22:30	526-73-8	
1,3,5-Trimethylbenzene	<0.00850	mg/kg	0.00850	0.00340	1	11/16/20 13:19	11/24/20 22:30	108-67-8	
Vinyl chloride	<0.00425	mg/kg	0.00425	0.00197	1	11/16/20 13:19	11/24/20 22:30	75-01-4	
Xylene (Total)	0.00566J	mg/kg	0.0111	0.00150	1	11/16/20 13:19	11/24/20 22:30	1330-20-7	J
<b>Surrogates</b>									
Toluene-d8 (S)	113	%	75.0-131		1	11/16/20 13:19	11/24/20 22:30	2037-26-5	
4-Bromofluorobenzene (S)	90.6	%	67.0-138		1	11/16/20 13:19	11/24/20 22:30	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130		1	11/16/20 13:19	11/24/20 22:30	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids 75.6 % 1 11/30/20 07:25 11/30/20 07:38

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 75-E Lab ID: 92506486012 Collected: 11/16/20 13:23 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	3.25J	mg/kg	8.46	2.82	1	11/16/20 13:23	12/01/20 08:12		J
Aliphatic (C09-C12)	<8.46	mg/kg	8.46	2.82	1	11/16/20 13:23	12/01/20 08:12		
Aromatic (C09-C10), Unadjusted	<8.46	mg/kg	8.46	2.82	1	11/16/20 13:23	11/24/20 15:22	TPHC9C10A	
Total VPH	3.25J	mg/kg	8.46	2.82	1	11/16/20 13:23	12/01/20 08:12	VPH	J
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	80.2	%	70.0-130		1	11/16/20 13:23	11/24/20 15:22	615-59-8FID	
2,5-Dibromotoluene (FID)	94.4	%	70.0-130		1	11/16/20 13:23	12/01/20 08:12	615-59-8FID	
2,5-Dibromotoluene (PID)	73.3	%	70.0-130		1	11/16/20 13:23	11/24/20 15:22	615-59-8PID	
2,5-Dibromotoluene (PID)	88.9	%	70.0-130		1	11/16/20 13:23	12/01/20 08:12	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.0897	mg/kg	0.0897	0.0655	1.09	11/16/20 13:23	11/24/20 22:49	67-64-1	
Acrylonitrile	<0.0224	mg/kg	0.0224	0.00647	1.09	11/16/20 13:23	11/24/20 22:49	107-13-1	
Benzene	0.0410	mg/kg	0.00179	0.000838	1.09	11/16/20 13:23	11/24/20 22:49	71-43-2	
Bromobenzene	<0.0224	mg/kg	0.0224	0.00162	1.09	11/16/20 13:23	11/24/20 22:49	108-86-1	
Bromodichloromethane	<0.00450	mg/kg	0.00450	0.00130	1.09	11/16/20 13:23	11/24/20 22:49	75-27-4	
Bromoform	<0.0450	mg/kg	0.0450	0.00211	1.09	11/16/20 13:23	11/24/20 22:49	75-25-2	
Bromomethane	<0.0224	mg/kg	0.0224	0.00354	1.09	11/16/20 13:23	11/24/20 22:49	74-83-9	
n-Butylbenzene	<0.0224	mg/kg	0.0224	0.00942	1.09	11/16/20 13:23	11/24/20 22:49	104-51-8	
sec-Butylbenzene	<0.0224	mg/kg	0.0224	0.00517	1.09	11/16/20 13:23	11/24/20 22:49	135-98-8	
tert-Butylbenzene	<0.00897	mg/kg	0.00897	0.00351	1.09	11/16/20 13:23	11/24/20 22:49	98-06-6	
Carbon tetrachloride	<0.00897	mg/kg	0.00897	0.00161	1.09	11/16/20 13:23	11/24/20 22:49	56-23-5	
Chlorobenzene	<0.00450	mg/kg	0.00450	0.000377	1.09	11/16/20 13:23	11/24/20 22:49	108-90-7	
Dibromochloromethane	<0.00450	mg/kg	0.00450	0.00110	1.09	11/16/20 13:23	11/24/20 22:49	124-48-1	
Chloroethane	<0.00897	mg/kg	0.00897	0.00305	1.09	11/16/20 13:23	11/24/20 22:49	75-00-3	
Chloroform	<0.00450	mg/kg	0.00450	0.00184	1.09	11/16/20 13:23	11/24/20 22:49	67-66-3	
Chloromethane	<0.0224	mg/kg	0.0224	0.00780	1.09	11/16/20 13:23	11/24/20 22:49	74-87-3	
2-Chlorotoluene	<0.00450	mg/kg	0.00450	0.00155	1.09	11/16/20 13:23	11/24/20 22:49	95-49-8	
4-Chlorotoluene	<0.00897	mg/kg	0.00897	0.000808	1.09	11/16/20 13:23	11/24/20 22:49	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0450	mg/kg	0.0450	0.00700	1.09	11/16/20 13:23	11/24/20 22:49	96-12-8	
1,2-Dibromoethane (EDB)	<0.00450	mg/kg	0.00450	0.00116	1.09	11/16/20 13:23	11/24/20 22:49	106-93-4	
Dibromomethane	<0.00897	mg/kg	0.00897	0.00135	1.09	11/16/20 13:23	11/24/20 22:49	74-95-3	
1,2-Dichlorobenzene	<0.00897	mg/kg	0.00897	0.000762	1.09	11/16/20 13:23	11/24/20 22:49	95-50-1	
1,3-Dichlorobenzene	<0.00897	mg/kg	0.00897	0.00108	1.09	11/16/20 13:23	11/24/20 22:49	541-73-1	
1,4-Dichlorobenzene	<0.00897	mg/kg	0.00897	0.00126	1.09	11/16/20 13:23	11/24/20 22:49	106-46-7	
Dichlorodifluoromethane	<0.00450	mg/kg	0.00450	0.00288	1.09	11/16/20 13:23	11/24/20 22:49	75-71-8	
1,1-Dichloroethane	<0.00450	mg/kg	0.00450	0.000881	1.09	11/16/20 13:23	11/24/20 22:49	75-34-3	
1,2-Dichloroethane	<0.00450	mg/kg	0.00450	0.00116	1.09	11/16/20 13:23	11/24/20 22:49	107-06-2	
1,1-Dichloroethene	<0.00450	mg/kg	0.00450	0.00109	1.09	11/16/20 13:23	11/24/20 22:49	75-35-4	LO
cis-1,2-Dichloroethene	<0.00450	mg/kg	0.00450	0.00132	1.09	11/16/20 13:23	11/24/20 22:49	156-59-2	
trans-1,2-Dichloroethene	<0.00897	mg/kg	0.00897	0.00186	1.09	11/16/20 13:23	11/24/20 22:49	156-60-5	
1,2-Dichloropropane	<0.00897	mg/kg	0.00897	0.00255	1.09	11/16/20 13:23	11/24/20 22:49	78-87-5	
1,1-Dichloropropene	<0.00450	mg/kg	0.00450	0.00145	1.09	11/16/20 13:23	11/24/20 22:49	563-58-6	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 75-E Lab ID: 92506486012 Collected: 11/16/20 13:23 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.00897	mg/kg	0.00897	0.000899	1.09	11/16/20 13:23	11/24/20 22:49	142-28-9	
cis-1,3-Dichloropropene	<0.00450	mg/kg	0.00450	0.00136	1.09	11/16/20 13:23	11/24/20 22:49	10061-01-5	
trans-1,3-Dichloropropene	<0.00897	mg/kg	0.00897	0.00204	1.09	11/16/20 13:23	11/24/20 22:49	10061-02-6	
2,2-Dichloropropane	<0.00450	mg/kg	0.00450	0.00247	1.09	11/16/20 13:23	11/24/20 22:49	594-20-7	
Diisopropyl ether	<0.00179	mg/kg	0.00179	0.000736	1.09	11/16/20 13:23	11/24/20 22:49	108-20-3	
Ethylbenzene	0.00812	mg/kg	0.00450	0.00132	1.09	11/16/20 13:23	11/24/20 22:49	100-41-4	
Hexachloro-1,3-butadiene	<0.0450	mg/kg	0.0450	0.0108	1.09	11/16/20 13:23	11/24/20 22:49	87-68-3	
Isopropylbenzene (Cumene)	<0.00450	mg/kg	0.00450	0.000762	1.09	11/16/20 13:23	11/24/20 22:49	98-82-8	
p-Isopropyltoluene	<0.00897	mg/kg	0.00897	0.00458	1.09	11/16/20 13:23	11/24/20 22:49	99-87-6	
2-Butanone (MEK)	<0.179	mg/kg	0.179	0.114	1.09	11/16/20 13:23	11/24/20 22:49	78-93-3	
Methylene Chloride	0.0268J	mg/kg	0.0450	0.0119	1.09	11/16/20 13:23	11/24/20 22:49	75-09-2	J
4-Methyl-2-pentanone (MIBK)	<0.0450	mg/kg	0.0450	0.00410	1.09	11/16/20 13:23	11/24/20 22:49	108-10-1	
Methyl-tert-butyl ether	<0.00179	mg/kg	0.00179	0.000627	1.09	11/16/20 13:23	11/24/20 22:49	1634-04-4	
Naphthalene	<0.0224	mg/kg	0.0224	0.00876	1.09	11/16/20 13:23	11/24/20 22:49	91-20-3	
n-Propylbenzene	<0.00897	mg/kg	0.00897	0.00171	1.09	11/16/20 13:23	11/24/20 22:49	103-65-1	
Styrene	<0.0224	mg/kg	0.0224	0.000412	1.09	11/16/20 13:23	11/24/20 22:49	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00450	mg/kg	0.00450	0.00170	1.09	11/16/20 13:23	11/24/20 22:49	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00450	mg/kg	0.00450	0.00125	1.09	11/16/20 13:23	11/24/20 22:49	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00450	mg/kg	0.00450	0.00135	1.09	11/16/20 13:23	11/24/20 22:49	76-13-1	
Tetrachloroethene	<0.00450	mg/kg	0.00450	0.00161	1.09	11/16/20 13:23	11/24/20 22:49	127-18-4	
Toluene	0.0999	mg/kg	0.00897	0.00234	1.09	11/16/20 13:23	11/24/20 22:49	108-88-3	
1,2,3-Trichlorobenzene	<0.0224	mg/kg	0.0224	0.0132	1.09	11/16/20 13:23	11/24/20 22:49	87-61-6	
1,2,4-Trichlorobenzene	<0.0224	mg/kg	0.0224	0.00790	1.09	11/16/20 13:23	11/24/20 22:49	120-82-1	
1,1,1-Trichloroethane	<0.00450	mg/kg	0.00450	0.00166	1.09	11/16/20 13:23	11/24/20 22:49	71-55-6	
1,1,2-Trichloroethane	<0.00450	mg/kg	0.00450	0.00107	1.09	11/16/20 13:23	11/24/20 22:49	79-00-5	
Trichloroethene	<0.00179	mg/kg	0.00179	0.00105	1.09	11/16/20 13:23	11/24/20 22:49	79-01-6	
Trichlorofluoromethane	<0.00450	mg/kg	0.00450	0.00148	1.09	11/16/20 13:23	11/24/20 22:49	75-69-4	
1,2,3-Trichloropropane	<0.0224	mg/kg	0.0224	0.00291	1.09	11/16/20 13:23	11/24/20 22:49	96-18-4	
1,2,4-Trimethylbenzene	0.00445J	mg/kg	0.00897	0.00283	1.09	11/16/20 13:23	11/24/20 22:49	95-63-6	J
1,2,3-Trimethylbenzene	<0.00897	mg/kg	0.00897	0.00283	1.09	11/16/20 13:23	11/24/20 22:49	526-73-8	
1,3,5-Trimethylbenzene	<0.00897	mg/kg	0.00897	0.00359	1.09	11/16/20 13:23	11/24/20 22:49	108-67-8	
Vinyl chloride	<0.00450	mg/kg	0.00450	0.00207	1.09	11/16/20 13:23	11/24/20 22:49	75-01-4	
Xylene (Total)	0.0240	mg/kg	0.0117	0.00158	1.09	11/16/20 13:23	11/24/20 22:49	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	112	%	75.0-131		1.09	11/16/20 13:23	11/24/20 22:49	2037-26-5	
4-Bromofluorobenzene (S)	90.8	%	67.0-138		1.09	11/16/20 13:23	11/24/20 22:49	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130		1.09	11/16/20 13:23	11/24/20 22:49	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	74.8	%			1	11/30/20 07:40	11/30/20 07:55		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 100-W Lab ID: 92506486013 Collected: 11/16/20 14:12 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEP VPH Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	6.10J	mg/kg	9.61	3.19	1.03	11/16/20 14:12	12/01/20 08:45		J
Aliphatic (C09-C12)	4.63J	mg/kg	9.61	3.19	1.03	11/16/20 14:12	12/01/20 08:45		J
Aromatic (C09-C10), Unadjusted	<9.61	mg/kg	9.61	3.19	1.03	11/16/20 14:12	11/24/20 15:55	TPHC9C10A	
Total VPH	10.7	mg/kg	9.61	3.19	1.03	11/16/20 14:12	12/01/20 08:45	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	82.5	%	70.0-130		1.03	11/16/20 14:12	11/24/20 15:55	615-59-8FID	
2,5-Dibromotoluene (FID)	92.2	%	70.0-130		1.03	11/16/20 14:12	12/01/20 08:45	615-59-8FID	
2,5-Dibromotoluene (PID)	76.8	%	70.0-130		1.03	11/16/20 14:12	11/24/20 15:55	615-59-8PID	
2,5-Dibromotoluene (PID)	89.0	%	70.0-130		1.03	11/16/20 14:12	12/01/20 08:45	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.101	mg/kg	0.101	0.0737	1.1	11/16/20 14:12	11/24/20 23:08	67-64-1	
Acrylonitrile	<0.0253	mg/kg	0.0253	0.00729	1.1	11/16/20 14:12	11/24/20 23:08	107-13-1	
Benzene	0.786	mg/kg	0.00202	0.000944	1.1	11/16/20 14:12	11/24/20 23:08	71-43-2	
Bromobenzene	<0.0253	mg/kg	0.0253	0.00182	1.1	11/16/20 14:12	11/24/20 23:08	108-86-1	
Bromodichloromethane	<0.00505	mg/kg	0.00505	0.00146	1.1	11/16/20 14:12	11/24/20 23:08	75-27-4	
Bromoform	<0.0505	mg/kg	0.0505	0.00237	1.1	11/16/20 14:12	11/24/20 23:08	75-25-2	
Bromomethane	<0.0253	mg/kg	0.0253	0.00399	1.1	11/16/20 14:12	11/24/20 23:08	74-83-9	
n-Butylbenzene	<0.0253	mg/kg	0.0253	0.0106	1.1	11/16/20 14:12	11/24/20 23:08	104-51-8	
sec-Butylbenzene	<0.0253	mg/kg	0.0253	0.00582	1.1	11/16/20 14:12	11/24/20 23:08	135-98-8	
tert-Butylbenzene	<0.0101	mg/kg	0.0101	0.00395	1.1	11/16/20 14:12	11/24/20 23:08	98-06-6	
Carbon tetrachloride	<0.0101	mg/kg	0.0101	0.00181	1.1	11/16/20 14:12	11/24/20 23:08	56-23-5	
Chlorobenzene	<0.00505	mg/kg	0.00505	0.000424	1.1	11/16/20 14:12	11/24/20 23:08	108-90-7	
Dibromochloromethane	<0.00505	mg/kg	0.00505	0.00124	1.1	11/16/20 14:12	11/24/20 23:08	124-48-1	
Chloroethane	<0.0101	mg/kg	0.0101	0.00343	1.1	11/16/20 14:12	11/24/20 23:08	75-00-3	
Chloroform	<0.00505	mg/kg	0.00505	0.00208	1.1	11/16/20 14:12	11/24/20 23:08	67-66-3	
Chloromethane	<0.0253	mg/kg	0.0253	0.00880	1.1	11/16/20 14:12	11/24/20 23:08	74-87-3	
2-Chlorotoluene	<0.00505	mg/kg	0.00505	0.00175	1.1	11/16/20 14:12	11/24/20 23:08	95-49-8	
4-Chlorotoluene	<0.0101	mg/kg	0.0101	0.000909	1.1	11/16/20 14:12	11/24/20 23:08	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0505	mg/kg	0.0505	0.00788	1.1	11/16/20 14:12	11/24/20 23:08	96-12-8	
1,2-Dibromoethane (EDB)	<0.00505	mg/kg	0.00505	0.00131	1.1	11/16/20 14:12	11/24/20 23:08	106-93-4	
Dibromomethane	<0.0101	mg/kg	0.0101	0.00152	1.1	11/16/20 14:12	11/24/20 23:08	74-95-3	
1,2-Dichlorobenzene	<0.0101	mg/kg	0.0101	0.000860	1.1	11/16/20 14:12	11/24/20 23:08	95-50-1	
1,3-Dichlorobenzene	<0.0101	mg/kg	0.0101	0.00121	1.1	11/16/20 14:12	11/24/20 23:08	541-73-1	
1,4-Dichlorobenzene	<0.0101	mg/kg	0.0101	0.00141	1.1	11/16/20 14:12	11/24/20 23:08	106-46-7	
Dichlorodifluoromethane	<0.00505	mg/kg	0.00505	0.00325	1.1	11/16/20 14:12	11/24/20 23:08	75-71-8	
1,1-Dichloroethane	<0.00505	mg/kg	0.00505	0.000992	1.1	11/16/20 14:12	11/24/20 23:08	75-34-3	
1,2-Dichloroethane	<0.00505	mg/kg	0.00505	0.00131	1.1	11/16/20 14:12	11/24/20 23:08	107-06-2	
1,1-Dichloroethene	<0.00505	mg/kg	0.00505	0.00123	1.1	11/16/20 14:12	11/24/20 23:08	75-35-4	LO
cis-1,2-Dichloroethene	<0.00505	mg/kg	0.00505	0.00148	1.1	11/16/20 14:12	11/24/20 23:08	156-59-2	
trans-1,2-Dichloroethene	<0.0101	mg/kg	0.0101	0.00209	1.1	11/16/20 14:12	11/24/20 23:08	156-60-5	
1,2-Dichloropropane	<0.0101	mg/kg	0.0101	0.00287	1.1	11/16/20 14:12	11/24/20 23:08	78-87-5	
1,1-Dichloropropene	<0.00505	mg/kg	0.00505	0.00163	1.1	11/16/20 14:12	11/24/20 23:08	563-58-6	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 100-W Lab ID: 92506486013 Collected: 11/16/20 14:12 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.0101	mg/kg	0.0101	0.00101	1.1	11/16/20 14:12	11/24/20 23:08	142-28-9	
cis-1,3-Dichloropropene	<0.00505	mg/kg	0.00505	0.00153	1.1	11/16/20 14:12	11/24/20 23:08	10061-01-5	
trans-1,3-Dichloropropene	<0.0101	mg/kg	0.0101	0.00230	1.1	11/16/20 14:12	11/24/20 23:08	10061-02-6	
2,2-Dichloropropane	<0.00505	mg/kg	0.00505	0.00279	1.1	11/16/20 14:12	11/24/20 23:08	594-20-7	
Diisopropyl ether	0.138	mg/kg	0.00202	0.000828	1.1	11/16/20 14:12	11/24/20 23:08	108-20-3	C5
Ethylbenzene	0.0593	mg/kg	0.00505	0.00149	1.1	11/16/20 14:12	11/24/20 23:08	100-41-4	
Hexachloro-1,3-butadiene	<0.0505	mg/kg	0.0505	0.0121	1.1	11/16/20 14:12	11/24/20 23:08	87-68-3	
Isopropylbenzene (Cumene)	0.00106J	mg/kg	0.00505	0.000860	1.1	11/16/20 14:12	11/24/20 23:08	98-82-8	J
p-Isopropyltoluene	<0.0101	mg/kg	0.0101	0.00516	1.1	11/16/20 14:12	11/24/20 23:08	99-87-6	
2-Butanone (MEK)	<0.202	mg/kg	0.202	0.128	1.1	11/16/20 14:12	11/24/20 23:08	78-93-3	
Methylene Chloride	0.0380J	mg/kg	0.0505	0.0134	1.1	11/16/20 14:12	11/24/20 23:08	75-09-2	J
4-Methyl-2-pentanone (MIBK)	<0.0505	mg/kg	0.0505	0.00461	1.1	11/16/20 14:12	11/24/20 23:08	108-10-1	
Methyl-tert-butyl ether	0.0125	mg/kg	0.00202	0.000707	1.1	11/16/20 14:12	11/24/20 23:08	1634-04-4	
Naphthalene	<0.0253	mg/kg	0.0253	0.00986	1.1	11/16/20 14:12	11/24/20 23:08	91-20-3	
n-Propylbenzene	0.00211J	mg/kg	0.0101	0.00193	1.1	11/16/20 14:12	11/24/20 23:08	103-65-1	J
Styrene	<0.0253	mg/kg	0.0253	0.000463	1.1	11/16/20 14:12	11/24/20 23:08	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00505	mg/kg	0.00505	0.00191	1.1	11/16/20 14:12	11/24/20 23:08	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00505	mg/kg	0.00505	0.00141	1.1	11/16/20 14:12	11/24/20 23:08	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00505	mg/kg	0.00505	0.00152	1.1	11/16/20 14:12	11/24/20 23:08	76-13-1	
Tetrachloroethene	<0.00505	mg/kg	0.00505	0.00181	1.1	11/16/20 14:12	11/24/20 23:08	127-18-4	
Toluene	1.98	mg/kg	0.0101	0.00263	1.1	11/16/20 14:12	11/24/20 23:08	108-88-3	
1,2,3-Trichlorobenzene	<0.0253	mg/kg	0.0253	0.0148	1.1	11/16/20 14:12	11/24/20 23:08	87-61-6	
1,2,4-Trichlorobenzene	<0.0253	mg/kg	0.0253	0.00889	1.1	11/16/20 14:12	11/24/20 23:08	120-82-1	
1,1,1-Trichloroethane	<0.00505	mg/kg	0.00505	0.00187	1.1	11/16/20 14:12	11/24/20 23:08	71-55-6	
1,1,2-Trichloroethane	<0.00505	mg/kg	0.00505	0.00121	1.1	11/16/20 14:12	11/24/20 23:08	79-00-5	
Trichloroethene	<0.00202	mg/kg	0.00202	0.00118	1.1	11/16/20 14:12	11/24/20 23:08	79-01-6	
Trichlorofluoromethane	<0.00505	mg/kg	0.00505	0.00167	1.1	11/16/20 14:12	11/24/20 23:08	75-69-4	
1,2,3-Trichloropropane	<0.0253	mg/kg	0.0253	0.00327	1.1	11/16/20 14:12	11/24/20 23:08	96-18-4	
1,2,4-Trimethylbenzene	0.148	mg/kg	0.0101	0.00320	1.1	11/16/20 14:12	11/24/20 23:08	95-63-6	
1,2,3-Trimethylbenzene	0.0595	mg/kg	0.0101	0.00320	1.1	11/16/20 14:12	11/24/20 23:08	526-73-8	
1,3,5-Trimethylbenzene	0.0492	mg/kg	0.0101	0.00404	1.1	11/16/20 14:12	11/24/20 23:08	108-67-8	
Vinyl chloride	<0.00505	mg/kg	0.00505	0.00235	1.1	11/16/20 14:12	11/24/20 23:08	75-01-4	
Xylene (Total)	1.33	mg/kg	0.0131	0.00178	1.1	11/16/20 14:12	11/24/20 23:08	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	115	%	75.0-131		1.1	11/16/20 14:12	11/24/20 23:08	2037-26-5	
4-Bromofluorobenzene (S)	89.0	%	67.0-138		1.1	11/16/20 14:12	11/24/20 23:08	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130		1.1	11/16/20 14:12	11/24/20 23:08	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	69.5	%			1	11/30/20 07:40	11/30/20 07:55		

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

Sample: 100-B Lab ID: 92506486014 Collected: 11/16/20 13:51 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	16.4	mg/kg	7.15	2.39	1	11/16/20 13:51	11/25/20 16:18		
Aliphatic (C09-C12)	<7.15	mg/kg	7.15	2.39	1	11/16/20 13:51	11/25/20 16:18		
Aromatic (C09-C10), Unadjusted	<7.15	mg/kg	7.15	2.39	1	11/16/20 13:51	11/25/20 16:18	TPHC9C10A	
Total VPH	16.4	mg/kg	7.15	2.39	1	11/16/20 13:51	11/25/20 16:18	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	78.4	%	70.0-130		1	11/16/20 13:51	11/25/20 16:18	615-59-8FID	
2,5-Dibromotoluene (PID)	73.0	%	70.0-130		1	11/16/20 13:51	11/25/20 16:18	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.0719	mg/kg	0.0719	0.0525	1	11/16/20 13:51	11/24/20 23:27	67-64-1	
Acrylonitrile	<0.0180	mg/kg	0.0180	0.00519	1	11/16/20 13:51	11/24/20 23:27	107-13-1	
Benzene	0.00657	mg/kg	0.00144	0.000672	1	11/16/20 13:51	11/24/20 23:27	71-43-2	
Bromobenzene	<0.0180	mg/kg	0.0180	0.00129	1	11/16/20 13:51	11/24/20 23:27	108-86-1	
Bromodichloromethane	<0.00360	mg/kg	0.00360	0.00104	1	11/16/20 13:51	11/24/20 23:27	75-27-4	
Bromoform	<0.0360	mg/kg	0.0360	0.00168	1	11/16/20 13:51	11/24/20 23:27	75-25-2	
Bromomethane	<0.0180	mg/kg	0.0180	0.00283	1	11/16/20 13:51	11/24/20 23:27	74-83-9	
n-Butylbenzene	<0.0180	mg/kg	0.0180	0.00755	1	11/16/20 13:51	11/24/20 23:27	104-51-8	
sec-Butylbenzene	<0.0180	mg/kg	0.0180	0.00414	1	11/16/20 13:51	11/24/20 23:27	135-98-8	
tert-Butylbenzene	<0.00719	mg/kg	0.00719	0.00280	1	11/16/20 13:51	11/24/20 23:27	98-06-6	
Carbon tetrachloride	<0.00719	mg/kg	0.00719	0.00129	1	11/16/20 13:51	11/24/20 23:27	56-23-5	
Chlorobenzene	<0.00360	mg/kg	0.00360	0.000302	1	11/16/20 13:51	11/24/20 23:27	108-90-7	
Dibromochloromethane	<0.00360	mg/kg	0.00360	0.000880	1	11/16/20 13:51	11/24/20 23:27	124-48-1	
Chloroethane	<0.00719	mg/kg	0.00719	0.00245	1	11/16/20 13:51	11/24/20 23:27	75-00-3	
Chloroform	<0.00360	mg/kg	0.00360	0.00148	1	11/16/20 13:51	11/24/20 23:27	67-66-3	
Chloromethane	<0.0180	mg/kg	0.0180	0.00626	1	11/16/20 13:51	11/24/20 23:27	74-87-3	
2-Chlorotoluene	<0.00360	mg/kg	0.00360	0.00124	1	11/16/20 13:51	11/24/20 23:27	95-49-8	
4-Chlorotoluene	<0.00719	mg/kg	0.00719	0.000647	1	11/16/20 13:51	11/24/20 23:27	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0360	mg/kg	0.0360	0.00561	1	11/16/20 13:51	11/24/20 23:27	96-12-8	
1,2-Dibromoethane (EDB)	<0.00360	mg/kg	0.00360	0.000932	1	11/16/20 13:51	11/24/20 23:27	106-93-4	
Dibromomethane	<0.00719	mg/kg	0.00719	0.00108	1	11/16/20 13:51	11/24/20 23:27	74-95-3	
1,2-Dichlorobenzene	<0.00719	mg/kg	0.00719	0.000611	1	11/16/20 13:51	11/24/20 23:27	95-50-1	
1,3-Dichlorobenzene	<0.00719	mg/kg	0.00719	0.000863	1	11/16/20 13:51	11/24/20 23:27	541-73-1	
1,4-Dichlorobenzene	<0.00719	mg/kg	0.00719	0.00101	1	11/16/20 13:51	11/24/20 23:27	106-46-7	
Dichlorodifluoromethane	<0.00360	mg/kg	0.00360	0.00232	1	11/16/20 13:51	11/24/20 23:27	75-71-8	
1,1-Dichloroethane	<0.00360	mg/kg	0.00360	0.000706	1	11/16/20 13:51	11/24/20 23:27	75-34-3	
1,2-Dichloroethane	<0.00360	mg/kg	0.00360	0.000934	1	11/16/20 13:51	11/24/20 23:27	107-06-2	
1,1-Dichloroethene	<0.00360	mg/kg	0.00360	0.000872	1	11/16/20 13:51	11/24/20 23:27	75-35-4	L0
cis-1,2-Dichloroethene	<0.00360	mg/kg	0.00360	0.00106	1	11/16/20 13:51	11/24/20 23:27	156-59-2	
trans-1,2-Dichloroethene	<0.00719	mg/kg	0.00719	0.00150	1	11/16/20 13:51	11/24/20 23:27	156-60-5	
1,2-Dichloropropane	<0.00719	mg/kg	0.00719	0.00204	1	11/16/20 13:51	11/24/20 23:27	78-87-5	
1,1-Dichloropropene	<0.00360	mg/kg	0.00360	0.00116	1	11/16/20 13:51	11/24/20 23:27	563-58-6	
1,3-Dichloropropane	<0.00719	mg/kg	0.00719	0.000721	1	11/16/20 13:51	11/24/20 23:27	142-28-9	
cis-1,3-Dichloropropene	<0.00360	mg/kg	0.00360	0.00109	1	11/16/20 13:51	11/24/20 23:27	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 100-B Lab ID: 92506486014 Collected: 11/16/20 13:51 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00719	mg/kg	0.00719	0.00164	1	11/16/20 13:51	11/24/20 23:27	10061-02-6	
2,2-Dichloropropane	<0.00360	mg/kg	0.00360	0.00198	1	11/16/20 13:51	11/24/20 23:27	594-20-7	
Diisopropyl ether	<0.00144	mg/kg	0.00144	0.000590	1	11/16/20 13:51	11/24/20 23:27	108-20-3	
Ethylbenzene	0.00108J	mg/kg	0.00360	0.00106	1	11/16/20 13:51	11/24/20 23:27	100-41-4	J
Hexachloro-1,3-butadiene	<0.0360	mg/kg	0.0360	0.00863	1	11/16/20 13:51	11/24/20 23:27	87-68-3	
Isopropylbenzene (Cumene)	<0.00360	mg/kg	0.00360	0.000611	1	11/16/20 13:51	11/24/20 23:27	98-82-8	
p-Isopropyltoluene	<0.00719	mg/kg	0.00719	0.00367	1	11/16/20 13:51	11/24/20 23:27	99-87-6	
2-Butanone (MEK)	<0.144	mg/kg	0.144	0.0913	1	11/16/20 13:51	11/24/20 23:27	78-93-3	
Methylene Chloride	<0.0360	mg/kg	0.0360	0.00955	1	11/16/20 13:51	11/24/20 23:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0360	mg/kg	0.0360	0.00328	1	11/16/20 13:51	11/24/20 23:27	108-10-1	
Methyl-tert-butyl ether	<0.00144	mg/kg	0.00144	0.000503	1	11/16/20 13:51	11/24/20 23:27	1634-04-4	
Naphthalene	<0.0180	mg/kg	0.0180	0.00702	1	11/16/20 13:51	11/24/20 23:27	91-20-3	
n-Propylbenzene	<0.00719	mg/kg	0.00719	0.00137	1	11/16/20 13:51	11/24/20 23:27	103-65-1	
Styrene	<0.0180	mg/kg	0.0180	0.000329	1	11/16/20 13:51	11/24/20 23:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00360	mg/kg	0.00360	0.00136	1	11/16/20 13:51	11/24/20 23:27	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00360	mg/kg	0.00360	0.00100	1	11/16/20 13:51	11/24/20 23:27	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00360	mg/kg	0.00360	0.00108	1	11/16/20 13:51	11/24/20 23:27	76-13-1	
Tetrachloroethene	<0.00360	mg/kg	0.00360	0.00129	1	11/16/20 13:51	11/24/20 23:27	127-18-4	
Toluene	0.0164	mg/kg	0.00719	0.00187	1	11/16/20 13:51	11/24/20 23:27	108-88-3	
1,2,3-Trichlorobenzene	<0.0180	mg/kg	0.0180	0.0105	1	11/16/20 13:51	11/24/20 23:27	87-61-6	
1,2,4-Trichlorobenzene	<0.0180	mg/kg	0.0180	0.00633	1	11/16/20 13:51	11/24/20 23:27	120-82-1	
1,1,1-Trichloroethane	<0.00360	mg/kg	0.00360	0.00133	1	11/16/20 13:51	11/24/20 23:27	71-55-6	
1,1,2-Trichloroethane	<0.00360	mg/kg	0.00360	0.000859	1	11/16/20 13:51	11/24/20 23:27	79-00-5	
Trichloroethene	<0.00144	mg/kg	0.00144	0.000840	1	11/16/20 13:51	11/24/20 23:27	79-01-6	
Trichlorofluoromethane	<0.00360	mg/kg	0.00360	0.00119	1	11/16/20 13:51	11/24/20 23:27	75-69-4	
1,2,3-Trichloropropane	<0.0180	mg/kg	0.0180	0.00233	1	11/16/20 13:51	11/24/20 23:27	96-18-4	
1,2,4-Trimethylbenzene	0.00729	mg/kg	0.00719	0.00227	1	11/16/20 13:51	11/24/20 23:27	95-63-6	
1,2,3-Trimethylbenzene	0.00308J	mg/kg	0.00719	0.00227	1	11/16/20 13:51	11/24/20 23:27	526-73-8	J
1,3,5-Trimethylbenzene	0.00390J	mg/kg	0.00719	0.00288	1	11/16/20 13:51	11/24/20 23:27	108-67-8	J
Vinyl chloride	<0.00360	mg/kg	0.00360	0.00167	1	11/16/20 13:51	11/24/20 23:27	75-01-4	
Xylene (Total)	0.00749J	mg/kg	0.00935	0.00127	1	11/16/20 13:51	11/24/20 23:27	1330-20-7	J
<b>Surrogates</b>									
Toluene-d8 (S)	109	%	75.0-131		1	11/16/20 13:51	11/24/20 23:27	2037-26-5	
4-Bromofluorobenzene (S)	90.2	%	67.0-138		1	11/16/20 13:51	11/24/20 23:27	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130		1	11/16/20 13:51	11/24/20 23:27	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids 82.7 % 1 11/30/20 07:40 11/30/20 07:55

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

Sample: 100-E Lab ID: 92506486015 Collected: 11/16/20 13:30 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b> Analytical Method: MADEPV VPH Preparation Method: MADEPV Pace National - Mt. Juliet									
Aliphatic (C05-C08)	3.58J	mg/kg	8.81	2.94	1.05	11/16/20 13:30	11/25/20 16:51		J
Aliphatic (C09-C12)	<8.81	mg/kg	8.81	2.94	1.05	11/16/20 13:30	11/25/20 16:51		
Aromatic (C09-C10), Unadjusted	<8.81	mg/kg	8.81	2.94	1.05	11/16/20 13:30	11/25/20 16:51	TPHC9C10A	
Total VPH	3.58J	mg/kg	8.81	2.94	1.05	11/16/20 13:30	11/25/20 16:51	VPH	J

#### Surrogates

2,5-Dibromotoluene (FID)	84.1	%	70.0-130		1.05	11/16/20 13:30	11/25/20 16:51	615-59-8FID	
2,5-Dibromotoluene (PID)	80.0	%	70.0-130		1.05	11/16/20 13:30	11/25/20 16:51	615-59-8PID	

#### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<0.0871	mg/kg	0.0871	0.0636	1	11/16/20 13:30	11/24/20 23:46	67-64-1	
Acrylonitrile	<0.0218	mg/kg	0.0218	0.00629	1	11/16/20 13:30	11/24/20 23:46	107-13-1	
Benzene	0.147	mg/kg	0.00174	0.000814	1	11/16/20 13:30	11/24/20 23:46	71-43-2	
Bromobenzene	<0.0218	mg/kg	0.0218	0.00157	1	11/16/20 13:30	11/24/20 23:46	108-86-1	
Bromodichloromethane	<0.00436	mg/kg	0.00436	0.00126	1	11/16/20 13:30	11/24/20 23:46	75-27-4	
Bromoform	<0.0436	mg/kg	0.0436	0.00204	1	11/16/20 13:30	11/24/20 23:46	75-25-2	
Bromomethane	<0.0218	mg/kg	0.0218	0.00343	1	11/16/20 13:30	11/24/20 23:46	74-83-9	
n-Butylbenzene	<0.0218	mg/kg	0.0218	0.00915	1	11/16/20 13:30	11/24/20 23:46	104-51-8	
sec-Butylbenzene	<0.0218	mg/kg	0.0218	0.00502	1	11/16/20 13:30	11/24/20 23:46	135-98-8	
tert-Butylbenzene	<0.00871	mg/kg	0.00871	0.00340	1	11/16/20 13:30	11/24/20 23:46	98-06-6	
Carbon tetrachloride	<0.00871	mg/kg	0.00871	0.00156	1	11/16/20 13:30	11/24/20 23:46	56-23-5	
Chlorobenzene	<0.00436	mg/kg	0.00436	0.000366	1	11/16/20 13:30	11/24/20 23:46	108-90-7	
Dibromochloromethane	<0.00436	mg/kg	0.00436	0.00107	1	11/16/20 13:30	11/24/20 23:46	124-48-1	
Chloroethane	<0.00871	mg/kg	0.00871	0.00296	1	11/16/20 13:30	11/24/20 23:46	75-00-3	
Chloroform	<0.00436	mg/kg	0.00436	0.00179	1	11/16/20 13:30	11/24/20 23:46	67-66-3	
Chloromethane	<0.0218	mg/kg	0.0218	0.00758	1	11/16/20 13:30	11/24/20 23:46	74-87-3	
2-Chlorotoluene	<0.00436	mg/kg	0.00436	0.00151	1	11/16/20 13:30	11/24/20 23:46	95-49-8	
4-Chlorotoluene	<0.00871	mg/kg	0.00871	0.000784	1	11/16/20 13:30	11/24/20 23:46	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0436	mg/kg	0.0436	0.00679	1	11/16/20 13:30	11/24/20 23:46	96-12-8	
1,2-Dibromoethane (EDB)	<0.00436	mg/kg	0.00436	0.00113	1	11/16/20 13:30	11/24/20 23:46	106-93-4	
Dibromomethane	<0.00871	mg/kg	0.00871	0.00131	1	11/16/20 13:30	11/24/20 23:46	74-95-3	
1,2-Dichlorobenzene	<0.00871	mg/kg	0.00871	0.000740	1	11/16/20 13:30	11/24/20 23:46	95-50-1	
1,3-Dichlorobenzene	<0.00871	mg/kg	0.00871	0.00105	1	11/16/20 13:30	11/24/20 23:46	541-73-1	
1,4-Dichlorobenzene	<0.00871	mg/kg	0.00871	0.00122	1	11/16/20 13:30	11/24/20 23:46	106-46-7	
Dichlorodifluoromethane	<0.00436	mg/kg	0.00436	0.00280	1	11/16/20 13:30	11/24/20 23:46	75-71-8	
1,1-Dichloroethane	<0.00436	mg/kg	0.00436	0.000855	1	11/16/20 13:30	11/24/20 23:46	75-34-3	
1,2-Dichloroethane	<0.00436	mg/kg	0.00436	0.00113	1	11/16/20 13:30	11/24/20 23:46	107-06-2	
1,1-Dichloroethene	<0.00436	mg/kg	0.00436	0.00106	1	11/16/20 13:30	11/24/20 23:46	75-35-4	L0
cis-1,2-Dichloroethene	<0.00436	mg/kg	0.00436	0.00128	1	11/16/20 13:30	11/24/20 23:46	156-59-2	
trans-1,2-Dichloroethene	<0.00871	mg/kg	0.00871	0.00181	1	11/16/20 13:30	11/24/20 23:46	156-60-5	
1,2-Dichloropropane	<0.00871	mg/kg	0.00871	0.00247	1	11/16/20 13:30	11/24/20 23:46	78-87-5	
1,1-Dichloropropene	<0.00436	mg/kg	0.00436	0.00141	1	11/16/20 13:30	11/24/20 23:46	563-58-6	
1,3-Dichloropropane	<0.00871	mg/kg	0.00871	0.000873	1	11/16/20 13:30	11/24/20 23:46	142-28-9	
cis-1,3-Dichloropropene	<0.00436	mg/kg	0.00436	0.00132	1	11/16/20 13:30	11/24/20 23:46	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 100-E**      **Lab ID: 92506486015**      Collected: 11/16/20 13:30      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00871	mg/kg	0.00871	0.00199	1	11/16/20 13:30	11/24/20 23:46	10061-02-6	
2,2-Dichloropropane	<0.00436	mg/kg	0.00436	0.00240	1	11/16/20 13:30	11/24/20 23:46	594-20-7	
Diisopropyl ether	<0.00174	mg/kg	0.00174	0.000714	1	11/16/20 13:30	11/24/20 23:46	108-20-3	
Ethylbenzene	0.0373	mg/kg	0.00436	0.00128	1	11/16/20 13:30	11/24/20 23:46	100-41-4	
Hexachloro-1,3-butadiene	<0.0436	mg/kg	0.0436	0.0105	1	11/16/20 13:30	11/24/20 23:46	87-68-3	
Isopropylbenzene (Cumene)	0.00111J	mg/kg	0.00436	0.000740	1	11/16/20 13:30	11/24/20 23:46	98-82-8	J
p-Isopropyltoluene	<0.00871	mg/kg	0.00871	0.00444	1	11/16/20 13:30	11/24/20 23:46	99-87-6	
2-Butanone (MEK)	<0.174	mg/kg	0.174	0.111	1	11/16/20 13:30	11/24/20 23:46	78-93-3	
Methylene Chloride	<0.0436	mg/kg	0.0436	0.0116	1	11/16/20 13:30	11/24/20 23:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0436	mg/kg	0.0436	0.00397	1	11/16/20 13:30	11/24/20 23:46	108-10-1	
Methyl-tert-butyl ether	<0.00174	mg/kg	0.00174	0.000610	1	11/16/20 13:30	11/24/20 23:46	1634-04-4	
Naphthalene	<0.0218	mg/kg	0.0218	0.00850	1	11/16/20 13:30	11/24/20 23:46	91-20-3	
n-Propylbenzene	0.00850J	mg/kg	0.00871	0.00166	1	11/16/20 13:30	11/24/20 23:46	103-65-1	J
Styrene	<0.0218	mg/kg	0.0218	0.000399	1	11/16/20 13:30	11/24/20 23:46	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00436	mg/kg	0.00436	0.00165	1	11/16/20 13:30	11/24/20 23:46	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00436	mg/kg	0.00436	0.00121	1	11/16/20 13:30	11/24/20 23:46	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00436	mg/kg	0.00436	0.00131	1	11/16/20 13:30	11/24/20 23:46	76-13-1	
Tetrachloroethene	<0.00436	mg/kg	0.00436	0.00156	1	11/16/20 13:30	11/24/20 23:46	127-18-4	
Toluene	0.420	mg/kg	0.00871	0.00226	1	11/16/20 13:30	11/24/20 23:46	108-88-3	
1,2,3-Trichlorobenzene	<0.0218	mg/kg	0.0218	0.0128	1	11/16/20 13:30	11/24/20 23:46	87-61-6	
1,2,4-Trichlorobenzene	<0.0218	mg/kg	0.0218	0.00767	1	11/16/20 13:30	11/24/20 23:46	120-82-1	
1,1,1-Trichloroethane	<0.00436	mg/kg	0.00436	0.00161	1	11/16/20 13:30	11/24/20 23:46	71-55-6	
1,1,2-Trichloroethane	<0.00436	mg/kg	0.00436	0.00104	1	11/16/20 13:30	11/24/20 23:46	79-00-5	
Trichloroethene	<0.00174	mg/kg	0.00174	0.00102	1	11/16/20 13:30	11/24/20 23:46	79-01-6	
Trichlorofluoromethane	<0.00436	mg/kg	0.00436	0.00144	1	11/16/20 13:30	11/24/20 23:46	75-69-4	
1,2,3-Trichloropropane	<0.0218	mg/kg	0.0218	0.00282	1	11/16/20 13:30	11/24/20 23:46	96-18-4	
1,2,4-Trimethylbenzene	0.0190	mg/kg	0.00871	0.00275	1	11/16/20 13:30	11/24/20 23:46	95-63-6	
1,2,3-Trimethylbenzene	0.00341J	mg/kg	0.00871	0.00275	1	11/16/20 13:30	11/24/20 23:46	526-73-8	J
1,3,5-Trimethylbenzene	0.00981	mg/kg	0.00871	0.00348	1	11/16/20 13:30	11/24/20 23:46	108-67-8	
Vinyl chloride	<0.00436	mg/kg	0.00436	0.00202	1	11/16/20 13:30	11/24/20 23:46	75-01-4	
Xylene (Total)	0.156	mg/kg	0.0113	0.00153	1	11/16/20 13:30	11/24/20 23:46	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	112	%	75.0-131		1	11/16/20 13:30	11/24/20 23:46	2037-26-5	
4-Bromofluorobenzene (S)	92.3	%	67.0-138		1	11/16/20 13:30	11/24/20 23:46	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130		1	11/16/20 13:30	11/24/20 23:46	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G    Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	74.2	%			1	11/30/20 07:40	11/30/20 07:55		

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 125-W**      **Lab ID: 92506486016**      Collected: 11/16/20 14:30      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH      Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<7.58	mg/kg	7.58	2.53	1	11/16/20 14:30	11/25/20 17:24		
Aliphatic (C09-C12)	<7.58	mg/kg	7.58	2.53	1	11/16/20 14:30	11/25/20 17:24		
Aromatic (C09-C10), Unadjusted	<7.58	mg/kg	7.58	2.53	1	11/16/20 14:30	11/25/20 17:24	TPHC9C10A	
Total VPH	<7.58	mg/kg	7.58	2.53	1	11/16/20 14:30	11/25/20 17:24	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	84.2	%	70.0-130		1	11/16/20 14:30	11/25/20 17:24	615-59-8FID	
2,5-Dibromotoluene (PID)	78.8	%	70.0-130		1	11/16/20 14:30	11/25/20 17:24	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<0.0752	mg/kg	0.0752	0.0549	1	11/16/20 14:30	11/25/20 00:05	67-64-1	
Acrylonitrile	<0.0188	mg/kg	0.0188	0.00543	1	11/16/20 14:30	11/25/20 00:05	107-13-1	
Benzene	0.0172	mg/kg	0.00150	0.000703	1	11/16/20 14:30	11/25/20 00:05	71-43-2	
Bromobenzene	<0.0188	mg/kg	0.0188	0.00135	1	11/16/20 14:30	11/25/20 00:05	108-86-1	
Bromodichloromethane	<0.00376	mg/kg	0.00376	0.00109	1	11/16/20 14:30	11/25/20 00:05	75-27-4	
Bromoform	<0.0376	mg/kg	0.0376	0.00176	1	11/16/20 14:30	11/25/20 00:05	75-25-2	
Bromomethane	<0.0188	mg/kg	0.0188	0.00296	1	11/16/20 14:30	11/25/20 00:05	74-83-9	
n-Butylbenzene	<0.0188	mg/kg	0.0188	0.00790	1	11/16/20 14:30	11/25/20 00:05	104-51-8	
sec-Butylbenzene	<0.0188	mg/kg	0.0188	0.00433	1	11/16/20 14:30	11/25/20 00:05	135-98-8	
tert-Butylbenzene	<0.00752	mg/kg	0.00752	0.00293	1	11/16/20 14:30	11/25/20 00:05	98-06-6	
Carbon tetrachloride	<0.00752	mg/kg	0.00752	0.00135	1	11/16/20 14:30	11/25/20 00:05	56-23-5	
Chlorobenzene	<0.00376	mg/kg	0.00376	0.000316	1	11/16/20 14:30	11/25/20 00:05	108-90-7	
Dibromochloromethane	<0.00376	mg/kg	0.00376	0.000921	1	11/16/20 14:30	11/25/20 00:05	124-48-1	
Chloroethane	<0.00752	mg/kg	0.00752	0.00256	1	11/16/20 14:30	11/25/20 00:05	75-00-3	
Chloroform	<0.00376	mg/kg	0.00376	0.00155	1	11/16/20 14:30	11/25/20 00:05	67-66-3	
Chloromethane	<0.0188	mg/kg	0.0188	0.00655	1	11/16/20 14:30	11/25/20 00:05	74-87-3	
2-Chlorotoluene	<0.00376	mg/kg	0.00376	0.00130	1	11/16/20 14:30	11/25/20 00:05	95-49-8	
4-Chlorotoluene	<0.00752	mg/kg	0.00752	0.000677	1	11/16/20 14:30	11/25/20 00:05	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0376	mg/kg	0.0376	0.00587	1	11/16/20 14:30	11/25/20 00:05	96-12-8	
1,2-Dibromoethane (EDB)	<0.00376	mg/kg	0.00376	0.000975	1	11/16/20 14:30	11/25/20 00:05	106-93-4	
Dibromomethane	<0.00752	mg/kg	0.00752	0.00113	1	11/16/20 14:30	11/25/20 00:05	74-95-3	
1,2-Dichlorobenzene	<0.00752	mg/kg	0.00752	0.000639	1	11/16/20 14:30	11/25/20 00:05	95-50-1	
1,3-Dichlorobenzene	<0.00752	mg/kg	0.00752	0.000903	1	11/16/20 14:30	11/25/20 00:05	541-73-1	
1,4-Dichlorobenzene	<0.00752	mg/kg	0.00752	0.00105	1	11/16/20 14:30	11/25/20 00:05	106-46-7	
Dichlorodifluoromethane	<0.00376	mg/kg	0.00376	0.00242	1	11/16/20 14:30	11/25/20 00:05	75-71-8	
1,1-Dichloroethane	<0.00376	mg/kg	0.00376	0.000739	1	11/16/20 14:30	11/25/20 00:05	75-34-3	
1,2-Dichloroethane	<0.00376	mg/kg	0.00376	0.000977	1	11/16/20 14:30	11/25/20 00:05	107-06-2	
1,1-Dichloroethene	<0.00376	mg/kg	0.00376	0.000912	1	11/16/20 14:30	11/25/20 00:05	75-35-4	LO
cis-1,2-Dichloroethene	<0.00376	mg/kg	0.00376	0.00110	1	11/16/20 14:30	11/25/20 00:05	156-59-2	
trans-1,2-Dichloroethene	<0.00752	mg/kg	0.00752	0.00156	1	11/16/20 14:30	11/25/20 00:05	156-60-5	
1,2-Dichloropropane	<0.00752	mg/kg	0.00752	0.00214	1	11/16/20 14:30	11/25/20 00:05	78-87-5	
1,1-Dichloropropene	<0.00376	mg/kg	0.00376	0.00122	1	11/16/20 14:30	11/25/20 00:05	563-58-6	
1,3-Dichloropropane	<0.00752	mg/kg	0.00752	0.000754	1	11/16/20 14:30	11/25/20 00:05	142-28-9	
cis-1,3-Dichloropropene	<0.00376	mg/kg	0.00376	0.00114	1	11/16/20 14:30	11/25/20 00:05	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 125-W Lab ID: 92506486016 Collected: 11/16/20 14:30 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00752	mg/kg	0.00752	0.00172	1	11/16/20 14:30	11/25/20 00:05	10061-02-6	
2,2-Dichloropropane	<0.00376	mg/kg	0.00376	0.00208	1	11/16/20 14:30	11/25/20 00:05	594-20-7	
Diisopropyl ether	0.0119	mg/kg	0.00150	0.000617	1	11/16/20 14:30	11/25/20 00:05	108-20-3	C5
Ethylbenzene	<0.00376	mg/kg	0.00376	0.00111	1	11/16/20 14:30	11/25/20 00:05	100-41-4	
Hexachloro-1,3-butadiene	<0.0376	mg/kg	0.0376	0.00903	1	11/16/20 14:30	11/25/20 00:05	87-68-3	
Isopropylbenzene (Cumene)	<0.00376	mg/kg	0.00376	0.000639	1	11/16/20 14:30	11/25/20 00:05	98-82-8	
p-Isopropyltoluene	<0.00752	mg/kg	0.00752	0.00384	1	11/16/20 14:30	11/25/20 00:05	99-87-6	
2-Butanone (MEK)	<0.150	mg/kg	0.150	0.0955	1	11/16/20 14:30	11/25/20 00:05	78-93-3	
Methylene Chloride	<0.0376	mg/kg	0.0376	0.00999	1	11/16/20 14:30	11/25/20 00:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0376	mg/kg	0.0376	0.00343	1	11/16/20 14:30	11/25/20 00:05	108-10-1	
Methyl-tert-butyl ether	<0.00150	mg/kg	0.00150	0.000527	1	11/16/20 14:30	11/25/20 00:05	1634-04-4	
Naphthalene	<0.0188	mg/kg	0.0188	0.00734	1	11/16/20 14:30	11/25/20 00:05	91-20-3	
n-Propylbenzene	<0.00752	mg/kg	0.00752	0.00143	1	11/16/20 14:30	11/25/20 00:05	103-65-1	
Styrene	<0.0188	mg/kg	0.0188	0.000345	1	11/16/20 14:30	11/25/20 00:05	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00376	mg/kg	0.00376	0.00143	1	11/16/20 14:30	11/25/20 00:05	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00376	mg/kg	0.00376	0.00105	1	11/16/20 14:30	11/25/20 00:05	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00376	mg/kg	0.00376	0.00113	1	11/16/20 14:30	11/25/20 00:05	76-13-1	
Tetrachloroethene	<0.00376	mg/kg	0.00376	0.00135	1	11/16/20 14:30	11/25/20 00:05	127-18-4	
Toluene	0.00585J	mg/kg	0.00752	0.00196	1	11/16/20 14:30	11/25/20 00:05	108-88-3	J
1,2,3-Trichlorobenzene	<0.0188	mg/kg	0.0188	0.0110	1	11/16/20 14:30	11/25/20 00:05	87-61-6	
1,2,4-Trichlorobenzene	<0.0188	mg/kg	0.0188	0.00662	1	11/16/20 14:30	11/25/20 00:05	120-82-1	
1,1,1-Trichloroethane	<0.00376	mg/kg	0.00376	0.00139	1	11/16/20 14:30	11/25/20 00:05	71-55-6	
1,1,2-Trichloroethane	<0.00376	mg/kg	0.00376	0.000898	1	11/16/20 14:30	11/25/20 00:05	79-00-5	
Trichloroethene	<0.00150	mg/kg	0.00150	0.000879	1	11/16/20 14:30	11/25/20 00:05	79-01-6	
Trichlorofluoromethane	<0.00376	mg/kg	0.00376	0.00124	1	11/16/20 14:30	11/25/20 00:05	75-69-4	
1,2,3-Trichloropropane	<0.0188	mg/kg	0.0188	0.00244	1	11/16/20 14:30	11/25/20 00:05	96-18-4	
1,2,4-Trimethylbenzene	<0.00752	mg/kg	0.00752	0.00238	1	11/16/20 14:30	11/25/20 00:05	95-63-6	
1,2,3-Trimethylbenzene	<0.00752	mg/kg	0.00752	0.00238	1	11/16/20 14:30	11/25/20 00:05	526-73-8	
1,3,5-Trimethylbenzene	<0.00752	mg/kg	0.00752	0.00301	1	11/16/20 14:30	11/25/20 00:05	108-67-8	
Vinyl chloride	<0.00376	mg/kg	0.00376	0.00175	1	11/16/20 14:30	11/25/20 00:05	75-01-4	
Xylene (Total)	0.0156	mg/kg	0.00978	0.00132	1	11/16/20 14:30	11/25/20 00:05	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	113	%	75.0-131		1	11/16/20 14:30	11/25/20 00:05	2037-26-5	
4-Bromofluorobenzene (S)	87.1	%	67.0-138		1	11/16/20 14:30	11/25/20 00:05	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130		1	11/16/20 14:30	11/25/20 00:05	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids **80.8** % 1 11/30/20 07:40 11/30/20 07:55

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 125-B**      **Lab ID: 92506486017**      Collected: 11/16/20 14:21      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEP VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	8.05	mg/kg	6.54	2.18	1	11/16/20 14:21	11/25/20 17:57		
Aliphatic (C09-C12)	<0.6.54	mg/kg	6.54	2.18	1	11/16/20 14:21	11/25/20 17:57		
Aromatic (C09-C10), Unadjusted	<0.6.54	mg/kg	6.54	2.18	1	11/16/20 14:21	11/25/20 17:57	TPHC9C10A	
Total VPH	8.05	mg/kg	6.54	2.18	1	11/16/20 14:21	11/25/20 17:57	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	83.9	%	70.0-130		1	11/16/20 14:21	11/25/20 17:57	615-59-8FID	
2,5-Dibromotoluene (PID)	78.6	%	70.0-130		1	11/16/20 14:21	11/25/20 17:57	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.0655	mg/kg	0.0655	0.0478	1	11/16/20 14:21	11/25/20 00:24	67-64-1	
Acrylonitrile	<0.0164	mg/kg	0.0164	0.00473	1	11/16/20 14:21	11/25/20 00:24	107-13-1	
Benzene	0.0949	mg/kg	0.00131	0.000612	1	11/16/20 14:21	11/25/20 00:24	71-43-2	
Bromobenzene	<0.0164	mg/kg	0.0164	0.00118	1	11/16/20 14:21	11/25/20 00:24	108-86-1	
Bromodichloromethane	<0.00328	mg/kg	0.00328	0.000950	1	11/16/20 14:21	11/25/20 00:24	75-27-4	
Bromoform	<0.0328	mg/kg	0.0328	0.00153	1	11/16/20 14:21	11/25/20 00:24	75-25-2	
Bromomethane	<0.0164	mg/kg	0.0164	0.00258	1	11/16/20 14:21	11/25/20 00:24	74-83-9	
n-Butylbenzene	<0.0164	mg/kg	0.0164	0.00688	1	11/16/20 14:21	11/25/20 00:24	104-51-8	
sec-Butylbenzene	<0.0164	mg/kg	0.0164	0.00377	1	11/16/20 14:21	11/25/20 00:24	135-98-8	
tert-Butylbenzene	<0.00655	mg/kg	0.00655	0.00256	1	11/16/20 14:21	11/25/20 00:24	98-06-6	
Carbon tetrachloride	<0.00655	mg/kg	0.00655	0.00118	1	11/16/20 14:21	11/25/20 00:24	56-23-5	
Chlorobenzene	<0.00328	mg/kg	0.00328	0.000275	1	11/16/20 14:21	11/25/20 00:24	108-90-7	
Dibromochloromethane	<0.00328	mg/kg	0.00328	0.000802	1	11/16/20 14:21	11/25/20 00:24	124-48-1	
Chloroethane	<0.00655	mg/kg	0.00655	0.00223	1	11/16/20 14:21	11/25/20 00:24	75-00-3	
Chloroform	<0.00328	mg/kg	0.00328	0.00135	1	11/16/20 14:21	11/25/20 00:24	67-66-3	
Chloromethane	<0.0164	mg/kg	0.0164	0.00570	1	11/16/20 14:21	11/25/20 00:24	74-87-3	
2-Chlorotoluene	<0.00328	mg/kg	0.00328	0.00113	1	11/16/20 14:21	11/25/20 00:24	95-49-8	
4-Chlorotoluene	<0.00655	mg/kg	0.00655	0.000590	1	11/16/20 14:21	11/25/20 00:24	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0328	mg/kg	0.0328	0.00511	1	11/16/20 14:21	11/25/20 00:24	96-12-8	
1,2-Dibromoethane (EDB)	<0.00328	mg/kg	0.00328	0.000849	1	11/16/20 14:21	11/25/20 00:24	106-93-4	
Dibromomethane	<0.00655	mg/kg	0.00655	0.000983	1	11/16/20 14:21	11/25/20 00:24	74-95-3	
1,2-Dichlorobenzene	<0.00655	mg/kg	0.00655	0.000557	1	11/16/20 14:21	11/25/20 00:24	95-50-1	
1,3-Dichlorobenzene	<0.00655	mg/kg	0.00655	0.000786	1	11/16/20 14:21	11/25/20 00:24	541-73-1	
1,4-Dichlorobenzene	<0.00655	mg/kg	0.00655	0.000917	1	11/16/20 14:21	11/25/20 00:24	106-46-7	
Dichlorodifluoromethane	<0.00328	mg/kg	0.00328	0.00211	1	11/16/20 14:21	11/25/20 00:24	75-71-8	
1,1-Dichloroethane	<0.00328	mg/kg	0.00328	0.000643	1	11/16/20 14:21	11/25/20 00:24	75-34-3	
1,2-Dichloroethane	<0.00328	mg/kg	0.00328	0.000850	1	11/16/20 14:21	11/25/20 00:24	107-06-2	
1,1-Dichloroethene	<0.00328	mg/kg	0.00328	0.000794	1	11/16/20 14:21	11/25/20 00:24	75-35-4	LO
cis-1,2-Dichloroethene	<0.00328	mg/kg	0.00328	0.000962	1	11/16/20 14:21	11/25/20 00:24	156-59-2	
trans-1,2-Dichloroethene	<0.00655	mg/kg	0.00655	0.00136	1	11/16/20 14:21	11/25/20 00:24	156-60-5	
1,2-Dichloropropane	<0.00655	mg/kg	0.00655	0.00186	1	11/16/20 14:21	11/25/20 00:24	78-87-5	
1,1-Dichloropropene	<0.00328	mg/kg	0.00328	0.00106	1	11/16/20 14:21	11/25/20 00:24	563-58-6	
1,3-Dichloropropane	<0.00655	mg/kg	0.00655	0.000656	1	11/16/20 14:21	11/25/20 00:24	142-28-9	
cis-1,3-Dichloropropene	<0.00328	mg/kg	0.00328	0.000992	1	11/16/20 14:21	11/25/20 00:24	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 125-B Lab ID: 92506486017 Collected: 11/16/20 14:21 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00655	mg/kg	0.00655	0.00149	1	11/16/20 14:21	11/25/20 00:24	10061-02-6	
2,2-Dichloropropane	<0.00328	mg/kg	0.00328	0.00181	1	11/16/20 14:21	11/25/20 00:24	594-20-7	
Diisopropyl ether	<0.00131	mg/kg	0.00131	0.000537	1	11/16/20 14:21	11/25/20 00:24	108-20-3	
Ethylbenzene	<0.00328	mg/kg	0.00328	0.000966	1	11/16/20 14:21	11/25/20 00:24	100-41-4	
Hexachloro-1,3-butadiene	<0.0328	mg/kg	0.0328	0.00786	1	11/16/20 14:21	11/25/20 00:24	87-68-3	
Isopropylbenzene (Cumene)	<0.00328	mg/kg	0.00328	0.000557	1	11/16/20 14:21	11/25/20 00:24	98-82-8	
p-Isopropyltoluene	<0.00655	mg/kg	0.00655	0.00334	1	11/16/20 14:21	11/25/20 00:24	99-87-6	
2-Butanone (MEK)	<0.131	mg/kg	0.131	0.0832	1	11/16/20 14:21	11/25/20 00:24	78-93-3	
Methylene Chloride	<0.0328	mg/kg	0.0328	0.00870	1	11/16/20 14:21	11/25/20 00:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0328	mg/kg	0.0328	0.00299	1	11/16/20 14:21	11/25/20 00:24	108-10-1	
Methyl-tert-butyl ether	0.00117J	mg/kg	0.00131	0.000459	1	11/16/20 14:21	11/25/20 00:24	1634-04-4	J
Naphthalene	<0.0164	mg/kg	0.0164	0.00639	1	11/16/20 14:21	11/25/20 00:24	91-20-3	
n-Propylbenzene	<0.00655	mg/kg	0.00655	0.00124	1	11/16/20 14:21	11/25/20 00:24	103-65-1	
Styrene	<0.0164	mg/kg	0.0164	0.000300	1	11/16/20 14:21	11/25/20 00:24	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00328	mg/kg	0.00328	0.00124	1	11/16/20 14:21	11/25/20 00:24	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00328	mg/kg	0.00328	0.000911	1	11/16/20 14:21	11/25/20 00:24	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00328	mg/kg	0.00328	0.000988	1	11/16/20 14:21	11/25/20 00:24	76-13-1	
Tetrachloroethene	<0.00328	mg/kg	0.00328	0.00117	1	11/16/20 14:21	11/25/20 00:24	127-18-4	
Toluene	0.152	mg/kg	0.00655	0.00170	1	11/16/20 14:21	11/25/20 00:24	108-88-3	
1,2,3-Trichlorobenzene	<0.0164	mg/kg	0.0164	0.00960	1	11/16/20 14:21	11/25/20 00:24	87-61-6	
1,2,4-Trichlorobenzene	<0.0164	mg/kg	0.0164	0.00577	1	11/16/20 14:21	11/25/20 00:24	120-82-1	
1,1,1-Trichloroethane	<0.00328	mg/kg	0.00328	0.00121	1	11/16/20 14:21	11/25/20 00:24	71-55-6	
1,1,2-Trichloroethane	<0.00328	mg/kg	0.00328	0.000782	1	11/16/20 14:21	11/25/20 00:24	79-00-5	
Trichloroethene	<0.00131	mg/kg	0.00131	0.000765	1	11/16/20 14:21	11/25/20 00:24	79-01-6	
Trichlorofluoromethane	<0.00328	mg/kg	0.00328	0.00108	1	11/16/20 14:21	11/25/20 00:24	75-69-4	
1,2,3-Trichloropropane	<0.0164	mg/kg	0.0164	0.00212	1	11/16/20 14:21	11/25/20 00:24	96-18-4	
1,2,4-Trimethylbenzene	0.00767	mg/kg	0.00655	0.00207	1	11/16/20 14:21	11/25/20 00:24	95-63-6	
1,2,3-Trimethylbenzene	0.00423J	mg/kg	0.00655	0.00207	1	11/16/20 14:21	11/25/20 00:24	526-73-8	J
1,3,5-Trimethylbenzene	0.00498J	mg/kg	0.00655	0.00262	1	11/16/20 14:21	11/25/20 00:24	108-67-8	J
Vinyl chloride	<0.00328	mg/kg	0.00328	0.00152	1	11/16/20 14:21	11/25/20 00:24	75-01-4	
Xylene (Total)	0.0761	mg/kg	0.00852	0.00115	1	11/16/20 14:21	11/25/20 00:24	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		1	11/16/20 14:21	11/25/20 00:24	2037-26-5	
4-Bromofluorobenzene (S)	90.7	%	67.0-138		1	11/16/20 14:21	11/25/20 00:24	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130		1	11/16/20 14:21	11/25/20 00:24	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	87.2	%			1	11/30/20 07:40	11/30/20 07:55		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 125-E**      **Lab ID: 92506486018**      Collected: 11/16/20 13:40      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>2.53J</b>	mg/kg	6.39	2.13	1.05	11/16/20 13:40	11/25/20 18:30		J
Aliphatic (C09-C12)	<b>&lt;6.39</b>	mg/kg	6.39	2.13	1.05	11/16/20 13:40	11/25/20 18:30		
Aromatic (C09-C10), Unadjusted	<b>&lt;6.39</b>	mg/kg	6.39	2.13	1.05	11/16/20 13:40	11/25/20 18:30	TPHC9C10A	
Total VPH	<b>2.53J</b>	mg/kg	6.39	2.13	1.05	11/16/20 13:40	11/25/20 18:30	VPH	J

**Surrogates**

2,5-Dibromotoluene (FID)	82.7	%	70.0-130		1.05	11/16/20 13:40	11/25/20 18:30	615-59-8FID	
2,5-Dibromotoluene (PID)	79.5	%	70.0-130		1.05	11/16/20 13:40	11/25/20 18:30	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<b>&lt;0.0616</b>	mg/kg	0.0616	0.0450	1	11/16/20 13:40	11/25/20 00:43	67-64-1	
Acrylonitrile	<b>&lt;0.0154</b>	mg/kg	0.0154	0.00445	1	11/16/20 13:40	11/25/20 00:43	107-13-1	
Benzene	<b>0.0172</b>	mg/kg	0.00123	0.000575	1	11/16/20 13:40	11/25/20 00:43	71-43-2	
Bromobenzene	<b>&lt;0.0154</b>	mg/kg	0.0154	0.00111	1	11/16/20 13:40	11/25/20 00:43	108-86-1	
Bromodichloromethane	<b>&lt;0.00308</b>	mg/kg	0.00308	0.000893	1	11/16/20 13:40	11/25/20 00:43	75-27-4	
Bromoform	<b>&lt;0.0308</b>	mg/kg	0.0308	0.00144	1	11/16/20 13:40	11/25/20 00:43	75-25-2	
Bromomethane	<b>&lt;0.0154</b>	mg/kg	0.0154	0.00243	1	11/16/20 13:40	11/25/20 00:43	74-83-9	
n-Butylbenzene	<b>&lt;0.0154</b>	mg/kg	0.0154	0.00647	1	11/16/20 13:40	11/25/20 00:43	104-51-8	
sec-Butylbenzene	<b>&lt;0.0154</b>	mg/kg	0.0154	0.00355	1	11/16/20 13:40	11/25/20 00:43	135-98-8	
tert-Butylbenzene	<b>&lt;0.00616</b>	mg/kg	0.00616	0.00240	1	11/16/20 13:40	11/25/20 00:43	98-06-6	
Carbon tetrachloride	<b>&lt;0.00616</b>	mg/kg	0.00616	0.00111	1	11/16/20 13:40	11/25/20 00:43	56-23-5	
Chlorobenzene	<b>&lt;0.00308</b>	mg/kg	0.00308	0.000259	1	11/16/20 13:40	11/25/20 00:43	108-90-7	
Dibromochloromethane	<b>&lt;0.00308</b>	mg/kg	0.00308	0.000754	1	11/16/20 13:40	11/25/20 00:43	124-48-1	
Chloroethane	<b>&lt;0.00616</b>	mg/kg	0.00616	0.00209	1	11/16/20 13:40	11/25/20 00:43	75-00-3	
Chloroform	<b>&lt;0.00308</b>	mg/kg	0.00308	0.00127	1	11/16/20 13:40	11/25/20 00:43	67-66-3	
Chloromethane	<b>&lt;0.0154</b>	mg/kg	0.0154	0.00536	1	11/16/20 13:40	11/25/20 00:43	74-87-3	
2-Chlorotoluene	<b>&lt;0.00308</b>	mg/kg	0.00308	0.00107	1	11/16/20 13:40	11/25/20 00:43	95-49-8	
4-Chlorotoluene	<b>&lt;0.00616</b>	mg/kg	0.00616	0.000554	1	11/16/20 13:40	11/25/20 00:43	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0308</b>	mg/kg	0.0308	0.00480	1	11/16/20 13:40	11/25/20 00:43	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00308</b>	mg/kg	0.00308	0.000798	1	11/16/20 13:40	11/25/20 00:43	106-93-4	
Dibromomethane	<b>&lt;0.00616</b>	mg/kg	0.00616	0.000924	1	11/16/20 13:40	11/25/20 00:43	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00616</b>	mg/kg	0.00616	0.000523	1	11/16/20 13:40	11/25/20 00:43	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00616</b>	mg/kg	0.00616	0.000739	1	11/16/20 13:40	11/25/20 00:43	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00616</b>	mg/kg	0.00616	0.000862	1	11/16/20 13:40	11/25/20 00:43	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00308</b>	mg/kg	0.00308	0.00198	1	11/16/20 13:40	11/25/20 00:43	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00308</b>	mg/kg	0.00308	0.000605	1	11/16/20 13:40	11/25/20 00:43	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00308</b>	mg/kg	0.00308	0.000799	1	11/16/20 13:40	11/25/20 00:43	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00308</b>	mg/kg	0.00308	0.000746	1	11/16/20 13:40	11/25/20 00:43	75-35-4	LO
cis-1,2-Dichloroethene	<b>&lt;0.00308</b>	mg/kg	0.00308	0.000904	1	11/16/20 13:40	11/25/20 00:43	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00616</b>	mg/kg	0.00616	0.00128	1	11/16/20 13:40	11/25/20 00:43	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00616</b>	mg/kg	0.00616	0.00175	1	11/16/20 13:40	11/25/20 00:43	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00308</b>	mg/kg	0.00308	0.000996	1	11/16/20 13:40	11/25/20 00:43	563-58-6	
1,3-Dichloropropane	<b>&lt;0.00616</b>	mg/kg	0.00616	0.000617	1	11/16/20 13:40	11/25/20 00:43	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.00308</b>	mg/kg	0.00308	0.000932	1	11/16/20 13:40	11/25/20 00:43	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

**Sample: 125-E**      **Lab ID: 92506486018**      Collected: 11/16/20 13:40      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00616	mg/kg	0.00616	0.00140	1	11/16/20 13:40	11/25/20 00:43	10061-02-6	
2,2-Dichloropropane	<0.00308	mg/kg	0.00308	0.00170	1	11/16/20 13:40	11/25/20 00:43	594-20-7	
Diisopropyl ether	<0.00123	mg/kg	0.00123	0.000505	1	11/16/20 13:40	11/25/20 00:43	108-20-3	
Ethylbenzene	0.00155J	mg/kg	0.00308	0.000908	1	11/16/20 13:40	11/25/20 00:43	100-41-4	J
Hexachloro-1,3-butadiene	<0.0308	mg/kg	0.0308	0.00739	1	11/16/20 13:40	11/25/20 00:43	87-68-3	
Isopropylbenzene (Cumene)	<0.00308	mg/kg	0.00308	0.000523	1	11/16/20 13:40	11/25/20 00:43	98-82-8	
p-Isopropyltoluene	<0.00616	mg/kg	0.00616	0.00314	1	11/16/20 13:40	11/25/20 00:43	99-87-6	
2-Butanone (MEK)	<0.123	mg/kg	0.123	0.0782	1	11/16/20 13:40	11/25/20 00:43	78-93-3	
Methylene Chloride	<0.0308	mg/kg	0.0308	0.00818	1	11/16/20 13:40	11/25/20 00:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0308	mg/kg	0.0308	0.00281	1	11/16/20 13:40	11/25/20 00:43	108-10-1	
Methyl-tert-butyl ether	<0.00123	mg/kg	0.00123	0.000431	1	11/16/20 13:40	11/25/20 00:43	1634-04-4	
Naphthalene	<0.0154	mg/kg	0.0154	0.00601	1	11/16/20 13:40	11/25/20 00:43	91-20-3	
n-Propylbenzene	<0.00616	mg/kg	0.00616	0.00117	1	11/16/20 13:40	11/25/20 00:43	103-65-1	
Styrene	<0.0154	mg/kg	0.0154	0.000282	1	11/16/20 13:40	11/25/20 00:43	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00308	mg/kg	0.00308	0.00117	1	11/16/20 13:40	11/25/20 00:43	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00308	mg/kg	0.00308	0.000856	1	11/16/20 13:40	11/25/20 00:43	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00308	mg/kg	0.00308	0.000929	1	11/16/20 13:40	11/25/20 00:43	76-13-1	
Tetrachloroethene	<0.00308	mg/kg	0.00308	0.00110	1	11/16/20 13:40	11/25/20 00:43	127-18-4	
Toluene	0.0362	mg/kg	0.00616	0.00160	1	11/16/20 13:40	11/25/20 00:43	108-88-3	
1,2,3-Trichlorobenzene	<0.0154	mg/kg	0.0154	0.00903	1	11/16/20 13:40	11/25/20 00:43	87-61-6	
1,2,4-Trichlorobenzene	<0.0154	mg/kg	0.0154	0.00542	1	11/16/20 13:40	11/25/20 00:43	120-82-1	
1,1,1-Trichloroethane	<0.00308	mg/kg	0.00308	0.00114	1	11/16/20 13:40	11/25/20 00:43	71-55-6	
1,1,2-Trichloroethane	<0.00308	mg/kg	0.00308	0.000735	1	11/16/20 13:40	11/25/20 00:43	79-00-5	
Trichloroethene	<0.00123	mg/kg	0.00123	0.000719	1	11/16/20 13:40	11/25/20 00:43	79-01-6	
Trichlorofluoromethane	<0.00308	mg/kg	0.00308	0.00102	1	11/16/20 13:40	11/25/20 00:43	75-69-4	
1,2,3-Trichloropropane	<0.0154	mg/kg	0.0154	0.00200	1	11/16/20 13:40	11/25/20 00:43	96-18-4	
1,2,4-Trimethylbenzene	<0.00616	mg/kg	0.00616	0.00195	1	11/16/20 13:40	11/25/20 00:43	95-63-6	
1,2,3-Trimethylbenzene	<0.00616	mg/kg	0.00616	0.00195	1	11/16/20 13:40	11/25/20 00:43	526-73-8	
1,3,5-Trimethylbenzene	<0.00616	mg/kg	0.00616	0.00246	1	11/16/20 13:40	11/25/20 00:43	108-67-8	
Vinyl chloride	<0.00308	mg/kg	0.00308	0.00143	1	11/16/20 13:40	11/25/20 00:43	75-01-4	
Xylene (Total)	0.0103	mg/kg	0.00801	0.00108	1	11/16/20 13:40	11/25/20 00:43	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		1	11/16/20 13:40	11/25/20 00:43	2037-26-5	
4-Bromofluorobenzene (S)	90.8	%	67.0-138		1	11/16/20 13:40	11/25/20 00:43	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130		1	11/16/20 13:40	11/25/20 00:43	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids      **90.0**      %      1      11/30/20 07:40      11/30/20 07:55

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 150-E**      **Lab ID: 92506486019**      Collected: 11/16/20 16:40      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEP VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>3.86J</b>	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03		J
Aliphatic (C09-C12)	<b>&lt;6.99</b>	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03		
Aromatic (C09-C10), Unadjusted	<b>&lt;6.99</b>	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03	TPHC9C10A	
Total VPH	<b>3.86J</b>	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03	VPH	J
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	82.7	%	70.0-130		1.04	11/16/20 16:40	11/25/20 19:03	615-59-8FID	
2,5-Dibromotoluene (PID)	77.5	%	70.0-130		1.04	11/16/20 16:40	11/25/20 19:03	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<b>&lt;0.0684</b>	mg/kg	0.0684	0.0499	1	11/16/20 16:40	11/25/20 01:02	67-64-1	
Acrylonitrile	<b>&lt;0.0171</b>	mg/kg	0.0171	0.00494	1	11/16/20 16:40	11/25/20 01:02	107-13-1	
Benzene	<b>0.0830</b>	mg/kg	0.00137	0.000639	1	11/16/20 16:40	11/25/20 01:02	71-43-2	
Bromobenzene	<b>&lt;0.0171</b>	mg/kg	0.0171	0.00123	1	11/16/20 16:40	11/25/20 01:02	108-86-1	
Bromodichloromethane	<b>&lt;0.00342</b>	mg/kg	0.00342	0.000992	1	11/16/20 16:40	11/25/20 01:02	75-27-4	
Bromoform	<b>&lt;0.0342</b>	mg/kg	0.0342	0.00160	1	11/16/20 16:40	11/25/20 01:02	75-25-2	
Bromomethane	<b>&lt;0.0171</b>	mg/kg	0.0171	0.00269	1	11/16/20 16:40	11/25/20 01:02	74-83-9	
n-Butylbenzene	<b>&lt;0.0171</b>	mg/kg	0.0171	0.00718	1	11/16/20 16:40	11/25/20 01:02	104-51-8	
sec-Butylbenzene	<b>&lt;0.0171</b>	mg/kg	0.0171	0.00394	1	11/16/20 16:40	11/25/20 01:02	135-98-8	
tert-Butylbenzene	<b>&lt;0.00684</b>	mg/kg	0.00684	0.00267	1	11/16/20 16:40	11/25/20 01:02	98-06-6	
Carbon tetrachloride	<b>&lt;0.00684</b>	mg/kg	0.00684	0.00123	1	11/16/20 16:40	11/25/20 01:02	56-23-5	
Chlorobenzene	<b>&lt;0.00342</b>	mg/kg	0.00342	0.000287	1	11/16/20 16:40	11/25/20 01:02	108-90-7	
Dibromochloromethane	<b>&lt;0.00342</b>	mg/kg	0.00342	0.000837	1	11/16/20 16:40	11/25/20 01:02	124-48-1	
Chloroethane	<b>&lt;0.00684</b>	mg/kg	0.00684	0.00233	1	11/16/20 16:40	11/25/20 01:02	75-00-3	
Chloroform	<b>&lt;0.00342</b>	mg/kg	0.00342	0.00141	1	11/16/20 16:40	11/25/20 01:02	67-66-3	
Chloromethane	<b>&lt;0.0171</b>	mg/kg	0.0171	0.00595	1	11/16/20 16:40	11/25/20 01:02	74-87-3	
2-Chlorotoluene	<b>&lt;0.00342</b>	mg/kg	0.00342	0.00118	1	11/16/20 16:40	11/25/20 01:02	95-49-8	
4-Chlorotoluene	<b>&lt;0.00684</b>	mg/kg	0.00684	0.000615	1	11/16/20 16:40	11/25/20 01:02	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0342</b>	mg/kg	0.0342	0.00533	1	11/16/20 16:40	11/25/20 01:02	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00342</b>	mg/kg	0.00342	0.000886	1	11/16/20 16:40	11/25/20 01:02	106-93-4	
Dibromomethane	<b>&lt;0.00684</b>	mg/kg	0.00684	0.00103	1	11/16/20 16:40	11/25/20 01:02	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00684</b>	mg/kg	0.00684	0.000581	1	11/16/20 16:40	11/25/20 01:02	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00684</b>	mg/kg	0.00684	0.000821	1	11/16/20 16:40	11/25/20 01:02	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00684</b>	mg/kg	0.00684	0.000957	1	11/16/20 16:40	11/25/20 01:02	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00342</b>	mg/kg	0.00342	0.00220	1	11/16/20 16:40	11/25/20 01:02	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00342</b>	mg/kg	0.00342	0.000672	1	11/16/20 16:40	11/25/20 01:02	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00342</b>	mg/kg	0.00342	0.000888	1	11/16/20 16:40	11/25/20 01:02	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00342</b>	mg/kg	0.00342	0.000829	1	11/16/20 16:40	11/25/20 01:02	75-35-4	L0
cis-1,2-Dichloroethene	<b>&lt;0.00342</b>	mg/kg	0.00342	0.00100	1	11/16/20 16:40	11/25/20 01:02	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00684</b>	mg/kg	0.00684	0.00142	1	11/16/20 16:40	11/25/20 01:02	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00684</b>	mg/kg	0.00684	0.00194	1	11/16/20 16:40	11/25/20 01:02	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00342</b>	mg/kg	0.00342	0.00111	1	11/16/20 16:40	11/25/20 01:02	563-58-6	
1,3-Dichloropropane	<b>&lt;0.00684</b>	mg/kg	0.00684	0.000685	1	11/16/20 16:40	11/25/20 01:02	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.00342</b>	mg/kg	0.00342	0.00104	1	11/16/20 16:40	11/25/20 01:02	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 150-E Lab ID: 92506486019 Collected: 11/16/20 16:40 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00684	mg/kg	0.00684	0.00156	1	11/16/20 16:40	11/25/20 01:02	10061-02-6	
2,2-Dichloropropane	<0.00342	mg/kg	0.00342	0.00189	1	11/16/20 16:40	11/25/20 01:02	594-20-7	
Diisopropyl ether	<0.00137	mg/kg	0.00137	0.000561	1	11/16/20 16:40	11/25/20 01:02	108-20-3	
Ethylbenzene	0.00137J	mg/kg	0.00342	0.00101	1	11/16/20 16:40	11/25/20 01:02	100-41-4	J
Hexachloro-1,3-butadiene	<0.0342	mg/kg	0.0342	0.00821	1	11/16/20 16:40	11/25/20 01:02	87-68-3	
Isopropylbenzene (Cumene)	<0.00342	mg/kg	0.00342	0.000581	1	11/16/20 16:40	11/25/20 01:02	98-82-8	
p-Isopropyltoluene	<0.00684	mg/kg	0.00684	0.00349	1	11/16/20 16:40	11/25/20 01:02	99-87-6	
2-Butanone (MEK)	<0.137	mg/kg	0.137	0.0869	1	11/16/20 16:40	11/25/20 01:02	78-93-3	
Methylene Chloride	<0.0342	mg/kg	0.0342	0.00908	1	11/16/20 16:40	11/25/20 01:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0342	mg/kg	0.0342	0.00312	1	11/16/20 16:40	11/25/20 01:02	108-10-1	
Methyl-tert-butyl ether	<0.00137	mg/kg	0.00137	0.000479	1	11/16/20 16:40	11/25/20 01:02	1634-04-4	
Naphthalene	<0.0171	mg/kg	0.0171	0.00667	1	11/16/20 16:40	11/25/20 01:02	91-20-3	
n-Propylbenzene	<0.00684	mg/kg	0.00684	0.00130	1	11/16/20 16:40	11/25/20 01:02	103-65-1	
Styrene	<0.0171	mg/kg	0.0171	0.000313	1	11/16/20 16:40	11/25/20 01:02	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00342	mg/kg	0.00342	0.00130	1	11/16/20 16:40	11/25/20 01:02	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00342	mg/kg	0.00342	0.000951	1	11/16/20 16:40	11/25/20 01:02	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00342	mg/kg	0.00342	0.00103	1	11/16/20 16:40	11/25/20 01:02	76-13-1	
Tetrachloroethene	<0.00342	mg/kg	0.00342	0.00123	1	11/16/20 16:40	11/25/20 01:02	127-18-4	
Toluene	0.0553	mg/kg	0.00684	0.00178	1	11/16/20 16:40	11/25/20 01:02	108-88-3	
1,2,3-Trichlorobenzene	<0.0171	mg/kg	0.0171	0.0100	1	11/16/20 16:40	11/25/20 01:02	87-61-6	
1,2,4-Trichlorobenzene	<0.0171	mg/kg	0.0171	0.00602	1	11/16/20 16:40	11/25/20 01:02	120-82-1	
1,1,1-Trichloroethane	<0.00342	mg/kg	0.00342	0.00126	1	11/16/20 16:40	11/25/20 01:02	71-55-6	
1,1,2-Trichloroethane	<0.00342	mg/kg	0.00342	0.000817	1	11/16/20 16:40	11/25/20 01:02	79-00-5	
Trichloroethene	<0.00137	mg/kg	0.00137	0.000799	1	11/16/20 16:40	11/25/20 01:02	79-01-6	
Trichlorofluoromethane	<0.00342	mg/kg	0.00342	0.00113	1	11/16/20 16:40	11/25/20 01:02	75-69-4	
1,2,3-Trichloropropane	<0.0171	mg/kg	0.0171	0.00222	1	11/16/20 16:40	11/25/20 01:02	96-18-4	
1,2,4-Trimethylbenzene	<0.00684	mg/kg	0.00684	0.00216	1	11/16/20 16:40	11/25/20 01:02	95-63-6	
1,2,3-Trimethylbenzene	0.00491J	mg/kg	0.00684	0.00216	1	11/16/20 16:40	11/25/20 01:02	526-73-8	J
1,3,5-Trimethylbenzene	0.00346J	mg/kg	0.00684	0.00274	1	11/16/20 16:40	11/25/20 01:02	108-67-8	J
Vinyl chloride	<0.00342	mg/kg	0.00342	0.00159	1	11/16/20 16:40	11/25/20 01:02	75-01-4	
Xylene (Total)	0.0480	mg/kg	0.00889	0.00120	1	11/16/20 16:40	11/25/20 01:02	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	112	%	75.0-131		1	11/16/20 16:40	11/25/20 01:02	2037-26-5	
4-Bromofluorobenzene (S)	90.1	%	67.0-138		1	11/16/20 16:40	11/25/20 01:02	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130		1	11/16/20 16:40	11/25/20 01:02	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	85.1	%			1	11/30/20 07:40	11/30/20 07:55		

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 175-E**      **Lab ID: 92506486020**      Collected: 11/16/20 16:50      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEP VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	1800	mg/kg	31.3	10.4	4.32	11/16/20 16:50	11/26/20 01:09		
Aliphatic (C09-C12)	2610	mg/kg	31.3	10.4	4.32	11/16/20 16:50	11/26/20 01:09		
Aromatic (C09-C10), Unadjusted	725	mg/kg	78.2	26.1	10.8	11/16/20 16:50	12/01/20 10:58	TPHC9C10A	
Total VPH	4400	mg/kg	31.3	10.4	4.32	11/16/20 16:50	11/26/20 01:09	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	90.4	%	70.0-130		4.32	11/16/20 16:50	11/26/20 01:09	615-59-8FID	
2,5-Dibromotoluene (FID)	88.2	%	70.0-130		10.8	11/16/20 16:50	12/01/20 10:58	615-59-8FID	
2,5-Dibromotoluene (PID)	84.4	%	70.0-130		4.32	11/16/20 16:50	11/26/20 01:09	615-59-8PID	
2,5-Dibromotoluene (PID)	83.7	%	70.0-130		10.8	11/16/20 16:50	12/01/20 10:58	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.589	mg/kg	0.589	0.430	8	11/16/20 16:50	11/25/20 02:37	67-64-1	
Acrylonitrile	<0.147	mg/kg	0.147	0.0426	8	11/16/20 16:50	11/25/20 02:37	107-13-1	
Benzene	2.03	mg/kg	0.0118	0.00551	8	11/16/20 16:50	11/25/20 02:37	71-43-2	
Bromobenzene	<0.147	mg/kg	0.147	0.0106	8	11/16/20 16:50	11/25/20 02:37	108-86-1	
Bromodichloromethane	<0.0295	mg/kg	0.0295	0.00854	8	11/16/20 16:50	11/25/20 02:37	75-27-4	
Bromoform	<0.295	mg/kg	0.295	0.0138	8	11/16/20 16:50	11/25/20 02:37	75-25-2	
Bromomethane	<0.147	mg/kg	0.147	0.0233	8	11/16/20 16:50	11/25/20 02:37	74-83-9	
n-Butylbenzene	1.06	mg/kg	0.147	0.0619	8	11/16/20 16:50	11/25/20 02:37	104-51-8	
sec-Butylbenzene	0.442	mg/kg	0.147	0.0339	8	11/16/20 16:50	11/25/20 02:37	135-98-8	
tert-Butylbenzene	<0.0589	mg/kg	0.0589	0.0230	8	11/16/20 16:50	11/25/20 02:37	98-06-6	
Carbon tetrachloride	<0.0589	mg/kg	0.0589	0.0106	8	11/16/20 16:50	11/25/20 02:37	56-23-5	
Chlorobenzene	<0.0295	mg/kg	0.0295	0.00247	8	11/16/20 16:50	11/25/20 02:37	108-90-7	
Dibromochloromethane	<0.0295	mg/kg	0.0295	0.00722	8	11/16/20 16:50	11/25/20 02:37	124-48-1	
Chloroethane	<0.0589	mg/kg	0.0589	0.0200	8	11/16/20 16:50	11/25/20 02:37	75-00-3	
Chloroform	<0.0295	mg/kg	0.0295	0.0121	8	11/16/20 16:50	11/25/20 02:37	67-66-3	
Chloromethane	<0.147	mg/kg	0.147	0.0513	8	11/16/20 16:50	11/25/20 02:37	74-87-3	
2-Chlorotoluene	<0.0295	mg/kg	0.0295	0.0102	8	11/16/20 16:50	11/25/20 02:37	95-49-8	
4-Chlorotoluene	<0.0589	mg/kg	0.0589	0.00530	8	11/16/20 16:50	11/25/20 02:37	106-43-4	
1,2-Dibromo-3-chloropropane	<0.295	mg/kg	0.295	0.0460	8	11/16/20 16:50	11/25/20 02:37	96-12-8	
1,2-Dibromoethane (EDB)	<0.0295	mg/kg	0.0295	0.00763	8	11/16/20 16:50	11/25/20 02:37	106-93-4	
Dibromomethane	<0.0589	mg/kg	0.0589	0.00884	8	11/16/20 16:50	11/25/20 02:37	74-95-3	
1,2-Dichlorobenzene	<0.0589	mg/kg	0.0589	0.00501	8	11/16/20 16:50	11/25/20 02:37	95-50-1	
1,3-Dichlorobenzene	<0.0589	mg/kg	0.0589	0.00707	8	11/16/20 16:50	11/25/20 02:37	541-73-1	
1,4-Dichlorobenzene	<0.0589	mg/kg	0.0589	0.00825	8	11/16/20 16:50	11/25/20 02:37	106-46-7	
Dichlorodifluoromethane	<0.0295	mg/kg	0.0295	0.0190	8	11/16/20 16:50	11/25/20 02:37	75-71-8	
1,1-Dichloroethane	<0.0295	mg/kg	0.0295	0.00579	8	11/16/20 16:50	11/25/20 02:37	75-34-3	
1,2-Dichloroethane	<0.0295	mg/kg	0.0295	0.00765	8	11/16/20 16:50	11/25/20 02:37	107-06-2	
1,1-Dichloroethene	<0.0295	mg/kg	0.0295	0.00714	8	11/16/20 16:50	11/25/20 02:37	75-35-4	LO
cis-1,2-Dichloroethene	<0.0295	mg/kg	0.0295	0.00865	8	11/16/20 16:50	11/25/20 02:37	156-59-2	
trans-1,2-Dichloroethene	<0.0589	mg/kg	0.0589	0.0123	8	11/16/20 16:50	11/25/20 02:37	156-60-5	
1,2-Dichloropropane	<0.0589	mg/kg	0.0589	0.0168	8	11/16/20 16:50	11/25/20 02:37	78-87-5	
1,1-Dichloropropene	<0.0295	mg/kg	0.0295	0.00953	8	11/16/20 16:50	11/25/20 02:37	563-58-6	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 175-E Lab ID: 92506486020 Collected: 11/16/20 16:50 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.0589	mg/kg	0.0589	0.00591	8	11/16/20 16:50	11/25/20 02:37	142-28-9	
cis-1,3-Dichloropropene	<0.0295	mg/kg	0.0295	0.00893	8	11/16/20 16:50	11/25/20 02:37	10061-01-5	
trans-1,3-Dichloropropene	<0.0589	mg/kg	0.0589	0.0134	8	11/16/20 16:50	11/25/20 02:37	10061-02-6	
2,2-Dichloropropane	<0.0295	mg/kg	0.0295	0.0162	8	11/16/20 16:50	11/25/20 02:37	594-20-7	
Diisopropyl ether	1.77	mg/kg	0.0118	0.00483	8	11/16/20 16:50	11/25/20 02:37	108-20-3	C5
Ethylbenzene	10.9	mg/kg	0.0295	0.00869	8	11/16/20 16:50	11/25/20 02:37	100-41-4	
Hexachloro-1,3-butadiene	<0.295	mg/kg	0.295	0.0707	8	11/16/20 16:50	11/25/20 02:37	87-68-3	
Isopropylbenzene (Cumene)	0.854	mg/kg	0.0295	0.00501	8	11/16/20 16:50	11/25/20 02:37	98-82-8	
p-Isopropyltoluene	0.243	mg/kg	0.0589	0.0301	8	11/16/20 16:50	11/25/20 02:37	99-87-6	
2-Butanone (MEK)	<1.18	mg/kg	1.18	0.748	8	11/16/20 16:50	11/25/20 02:37	78-93-3	
Methylene Chloride	<0.295	mg/kg	0.295	0.0782	8	11/16/20 16:50	11/25/20 02:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.295	mg/kg	0.295	0.0268	8	11/16/20 16:50	11/25/20 02:37	108-10-1	
Methyl-tert-butyl ether	0.239	mg/kg	0.0118	0.00412	8	11/16/20 16:50	11/25/20 02:37	1634-04-4	
Naphthalene	2.93	mg/kg	0.147	0.0575	8	11/16/20 16:50	11/25/20 02:37	91-20-3	
n-Propylbenzene	4.42	mg/kg	0.0589	0.0112	8	11/16/20 16:50	11/25/20 02:37	103-65-1	C5
Styrene	<0.147	mg/kg	0.147	0.00270	8	11/16/20 16:50	11/25/20 02:37	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0295	mg/kg	0.0295	0.0112	8	11/16/20 16:50	11/25/20 02:37	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0295	mg/kg	0.0295	0.00819	8	11/16/20 16:50	11/25/20 02:37	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0295	mg/kg	0.0295	0.00888	8	11/16/20 16:50	11/25/20 02:37	76-13-1	
Tetrachloroethene	<0.0295	mg/kg	0.0295	0.0106	8	11/16/20 16:50	11/25/20 02:37	127-18-4	
Toluene	18.4	mg/kg	0.0589	0.0153	8	11/16/20 16:50	11/25/20 02:37	108-88-3	
1,2,3-Trichlorobenzene	<0.147	mg/kg	0.147	0.0863	8	11/16/20 16:50	11/25/20 02:37	87-61-6	
1,2,4-Trichlorobenzene	<0.147	mg/kg	0.147	0.0519	8	11/16/20 16:50	11/25/20 02:37	120-82-1	
1,1,1-Trichloroethane	<0.0295	mg/kg	0.0295	0.0109	8	11/16/20 16:50	11/25/20 02:37	71-55-6	
1,1,2-Trichloroethane	<0.0295	mg/kg	0.0295	0.00704	8	11/16/20 16:50	11/25/20 02:37	79-00-5	
Trichloroethene	<0.0118	mg/kg	0.0118	0.00688	8	11/16/20 16:50	11/25/20 02:37	79-01-6	
Trichlorofluoromethane	<0.0295	mg/kg	0.0295	0.00975	8	11/16/20 16:50	11/25/20 02:37	75-69-4	
1,2,3-Trichloropropane	<0.147	mg/kg	0.147	0.0192	8	11/16/20 16:50	11/25/20 02:37	96-18-4	
1,2,4-Trimethylbenzene	23.6	mg/kg	0.0589	0.0186	8	11/16/20 16:50	11/25/20 02:37	95-63-6	
1,2,3-Trimethylbenzene	7.04	mg/kg	0.0589	0.0186	8	11/16/20 16:50	11/25/20 02:37	526-73-8	
1,3,5-Trimethylbenzene	7.12	mg/kg	0.0589	0.0236	8	11/16/20 16:50	11/25/20 02:37	108-67-8	
Vinyl chloride	<0.0295	mg/kg	0.0295	0.0137	8	11/16/20 16:50	11/25/20 02:37	75-01-4	
Xylene (Total)	68.5	mg/kg	0.0766	0.0104	8	11/16/20 16:50	11/25/20 02:37	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	75.0-131		8	11/16/20 16:50	11/25/20 02:37	2037-26-5	
4-Bromofluorobenzene (S)	97.1	%	67.0-138		8	11/16/20 16:50	11/25/20 02:37	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70.0-130		8	11/16/20 16:50	11/25/20 02:37	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	81.2	%			1	11/30/20 07:40	11/30/20 07:55		
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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

**Sample: 150-W**      **Lab ID: 92506486021**      Collected: 11/16/20 15:40      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEP VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>4.46J</b>	mg/kg	7.56	2.53	1	11/16/20 15:40	11/25/20 19:37		J
Aliphatic (C09-C12)	<b>3.68J</b>	mg/kg	7.56	2.53	1	11/16/20 15:40	11/25/20 19:37		J
Aromatic (C09-C10), Unadjusted	<b>&lt;7.56</b>	mg/kg	7.56	2.53	1	11/16/20 15:40	11/25/20 19:37	TPHC9C10A	
Total VPH	<b>8.14</b>	mg/kg	7.56	2.53	1	11/16/20 15:40	11/25/20 19:37	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	85.2	%	70.0-130		1	11/16/20 15:40	11/25/20 19:37	615-59-8FID	
2,5-Dibromotoluene (PID)	80.0	%	70.0-130		1	11/16/20 15:40	11/25/20 19:37	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<b>0.145</b>	mg/kg	0.0744	0.0543	1	11/16/20 15:40	11/25/20 01:21	67-64-1	
Acrylonitrile	<b>&lt;0.0186</b>	mg/kg	0.0186	0.00538	1	11/16/20 15:40	11/25/20 01:21	107-13-1	
Benzene	<b>0.436</b>	mg/kg	0.00149	0.000695	1	11/16/20 15:40	11/25/20 01:21	71-43-2	
Bromobenzene	<b>&lt;0.0186</b>	mg/kg	0.0186	0.00134	1	11/16/20 15:40	11/25/20 01:21	108-86-1	
Bromodichloromethane	<b>&lt;0.00372</b>	mg/kg	0.00372	0.00108	1	11/16/20 15:40	11/25/20 01:21	75-27-4	
Bromoform	<b>&lt;0.0372</b>	mg/kg	0.0372	0.00174	1	11/16/20 15:40	11/25/20 01:21	75-25-2	
Bromomethane	<b>&lt;0.0186</b>	mg/kg	0.0186	0.00293	1	11/16/20 15:40	11/25/20 01:21	74-83-9	
n-Butylbenzene	<b>&lt;0.0186</b>	mg/kg	0.0186	0.00782	1	11/16/20 15:40	11/25/20 01:21	104-51-8	
sec-Butylbenzene	<b>&lt;0.0186</b>	mg/kg	0.0186	0.00429	1	11/16/20 15:40	11/25/20 01:21	135-98-8	
tert-Butylbenzene	<b>&lt;0.00744</b>	mg/kg	0.00744	0.00290	1	11/16/20 15:40	11/25/20 01:21	98-06-6	
Carbon tetrachloride	<b>&lt;0.00744</b>	mg/kg	0.00744	0.00134	1	11/16/20 15:40	11/25/20 01:21	56-23-5	
Chlorobenzene	<b>&lt;0.00372</b>	mg/kg	0.00372	0.000313	1	11/16/20 15:40	11/25/20 01:21	108-90-7	
Dibromochloromethane	<b>&lt;0.00372</b>	mg/kg	0.00372	0.000911	1	11/16/20 15:40	11/25/20 01:21	124-48-1	
Chloroethane	<b>&lt;0.00744</b>	mg/kg	0.00744	0.00253	1	11/16/20 15:40	11/25/20 01:21	75-00-3	
Chloroform	<b>&lt;0.00372</b>	mg/kg	0.00372	0.00153	1	11/16/20 15:40	11/25/20 01:21	67-66-3	
Chloromethane	<b>&lt;0.0186</b>	mg/kg	0.0186	0.00648	1	11/16/20 15:40	11/25/20 01:21	74-87-3	
2-Chlorotoluene	<b>&lt;0.00372</b>	mg/kg	0.00372	0.00129	1	11/16/20 15:40	11/25/20 01:21	95-49-8	
4-Chlorotoluene	<b>&lt;0.00744</b>	mg/kg	0.00744	0.000670	1	11/16/20 15:40	11/25/20 01:21	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0372</b>	mg/kg	0.0372	0.00581	1	11/16/20 15:40	11/25/20 01:21	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00372</b>	mg/kg	0.00372	0.000965	1	11/16/20 15:40	11/25/20 01:21	106-93-4	
Dibromomethane	<b>&lt;0.00744</b>	mg/kg	0.00744	0.00112	1	11/16/20 15:40	11/25/20 01:21	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00744</b>	mg/kg	0.00744	0.000633	1	11/16/20 15:40	11/25/20 01:21	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00744</b>	mg/kg	0.00744	0.000893	1	11/16/20 15:40	11/25/20 01:21	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00744</b>	mg/kg	0.00744	0.00104	1	11/16/20 15:40	11/25/20 01:21	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00372</b>	mg/kg	0.00372	0.00240	1	11/16/20 15:40	11/25/20 01:21	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00372</b>	mg/kg	0.00372	0.000731	1	11/16/20 15:40	11/25/20 01:21	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00372</b>	mg/kg	0.00372	0.000966	1	11/16/20 15:40	11/25/20 01:21	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00372</b>	mg/kg	0.00372	0.000902	1	11/16/20 15:40	11/25/20 01:21	75-35-4	LO
cis-1,2-Dichloroethene	<b>&lt;0.00372</b>	mg/kg	0.00372	0.00109	1	11/16/20 15:40	11/25/20 01:21	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00744</b>	mg/kg	0.00744	0.00155	1	11/16/20 15:40	11/25/20 01:21	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00744</b>	mg/kg	0.00744	0.00211	1	11/16/20 15:40	11/25/20 01:21	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00372</b>	mg/kg	0.00372	0.00120	1	11/16/20 15:40	11/25/20 01:21	563-58-6	
1,3-Dichloropropane	<b>&lt;0.00744</b>	mg/kg	0.00744	0.000746	1	11/16/20 15:40	11/25/20 01:21	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.00372</b>	mg/kg	0.00372	0.00113	1	11/16/20 15:40	11/25/20 01:21	10061-01-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 150-W**      **Lab ID: 92506486021**      Collected: 11/16/20 15:40      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00744	mg/kg	0.00744	0.00170	1	11/16/20 15:40	11/25/20 01:21	10061-02-6	
2,2-Dichloropropane	<0.00372	mg/kg	0.00372	0.00205	1	11/16/20 15:40	11/25/20 01:21	594-20-7	
Diisopropyl ether	0.0969	mg/kg	0.00149	0.000610	1	11/16/20 15:40	11/25/20 01:21	108-20-3	C5
Ethylbenzene	0.0740	mg/kg	0.00372	0.00110	1	11/16/20 15:40	11/25/20 01:21	100-41-4	
Hexachloro-1,3-butadiene	<0.0372	mg/kg	0.0372	0.00893	1	11/16/20 15:40	11/25/20 01:21	87-68-3	
Isopropylbenzene (Cumene)	0.00465	mg/kg	0.00372	0.000633	1	11/16/20 15:40	11/25/20 01:21	98-82-8	
p-Isopropyltoluene	<0.00744	mg/kg	0.00744	0.00380	1	11/16/20 15:40	11/25/20 01:21	99-87-6	
2-Butanone (MEK)	<0.149	mg/kg	0.149	0.0945	1	11/16/20 15:40	11/25/20 01:21	78-93-3	
Methylene Chloride	<0.0372	mg/kg	0.0372	0.00989	1	11/16/20 15:40	11/25/20 01:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0372	mg/kg	0.0372	0.00339	1	11/16/20 15:40	11/25/20 01:21	108-10-1	
Methyl-tert-butyl ether	0.0320	mg/kg	0.00149	0.000521	1	11/16/20 15:40	11/25/20 01:21	1634-04-4	
Naphthalene	0.0299	mg/kg	0.0186	0.00727	1	11/16/20 15:40	11/25/20 01:21	91-20-3	
n-Propylbenzene	0.0128	mg/kg	0.00744	0.00141	1	11/16/20 15:40	11/25/20 01:21	103-65-1	C5
Styrene	<0.0186	mg/kg	0.0186	0.000341	1	11/16/20 15:40	11/25/20 01:21	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00372	mg/kg	0.00372	0.00141	1	11/16/20 15:40	11/25/20 01:21	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00372	mg/kg	0.00372	0.00103	1	11/16/20 15:40	11/25/20 01:21	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00372	mg/kg	0.00372	0.00112	1	11/16/20 15:40	11/25/20 01:21	76-13-1	
Tetrachloroethene	<0.00372	mg/kg	0.00372	0.00133	1	11/16/20 15:40	11/25/20 01:21	127-18-4	
Toluene	1.22	mg/kg	0.00744	0.00194	1	11/16/20 15:40	11/25/20 01:21	108-88-3	
1,2,3-Trichlorobenzene	<0.0186	mg/kg	0.0186	0.0109	1	11/16/20 15:40	11/25/20 01:21	87-61-6	
1,2,4-Trichlorobenzene	<0.0186	mg/kg	0.0186	0.00655	1	11/16/20 15:40	11/25/20 01:21	120-82-1	
1,1,1-Trichloroethane	<0.00372	mg/kg	0.00372	0.00137	1	11/16/20 15:40	11/25/20 01:21	71-55-6	
1,1,2-Trichloroethane	<0.00372	mg/kg	0.00372	0.000889	1	11/16/20 15:40	11/25/20 01:21	79-00-5	
Trichloroethene	<0.00149	mg/kg	0.00149	0.000870	1	11/16/20 15:40	11/25/20 01:21	79-01-6	
Trichlorofluoromethane	<0.00372	mg/kg	0.00372	0.00123	1	11/16/20 15:40	11/25/20 01:21	75-69-4	
1,2,3-Trichloropropane	<0.0186	mg/kg	0.0186	0.00241	1	11/16/20 15:40	11/25/20 01:21	96-18-4	
1,2,4-Trimethylbenzene	0.120	mg/kg	0.00744	0.00235	1	11/16/20 15:40	11/25/20 01:21	95-63-6	
1,2,3-Trimethylbenzene	0.150	mg/kg	0.00744	0.00235	1	11/16/20 15:40	11/25/20 01:21	526-73-8	
1,3,5-Trimethylbenzene	0.0858	mg/kg	0.00744	0.00298	1	11/16/20 15:40	11/25/20 01:21	108-67-8	
Vinyl chloride	<0.00372	mg/kg	0.00372	0.00173	1	11/16/20 15:40	11/25/20 01:21	75-01-4	
Xylene (Total)	0.756	mg/kg	0.00968	0.00131	1	11/16/20 15:40	11/25/20 01:21	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	75.0-131		1	11/16/20 15:40	11/25/20 01:21	2037-26-5	
4-Bromofluorobenzene (S)	89.8	%	67.0-138		1	11/16/20 15:40	11/25/20 01:21	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130		1	11/16/20 15:40	11/25/20 01:21	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids      **81.1**      %      1      11/30/20 07:40      11/30/20 07:55

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 150-B**      **Lab ID: 92506486022**      Collected: 11/16/20 16:00      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	894	mg/kg	70.4	23.4	10	11/16/20 16:00	11/26/20 01:43		ML
Aliphatic (C09-C12)	472	mg/kg	70.4	23.4	10	11/16/20 16:00	11/26/20 01:43		
Aromatic (C09-C10), Unadjusted	216	mg/kg	70.4	23.4	10	11/16/20 16:00	11/26/20 01:43	TPHC9C10A	ML
Total VPH	1580	mg/kg	70.4	23.4	10	11/16/20 16:00	11/26/20 01:43	VPH	ML

**Surrogates**

2,5-Dibromotoluene (FID)	90.4	%	70.0-130		10	11/16/20 16:00	11/26/20 01:43	615-59-8FID	
2,5-Dibromotoluene (PID)	85.7	%	70.0-130		10	11/16/20 16:00	11/26/20 01:43	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<2.79	mg/kg	2.79	2.04	40	11/16/20 16:00	11/25/20 02:56	67-64-1	
Acrylonitrile	<0.697	mg/kg	0.697	0.201	40	11/16/20 16:00	11/25/20 02:56	107-13-1	
Benzene	4.63	mg/kg	0.0558	0.0261	40	11/16/20 16:00	11/25/20 02:56	71-43-2	
Bromobenzene	<0.697	mg/kg	0.697	0.0502	40	11/16/20 16:00	11/25/20 02:56	108-86-1	
Bromodichloromethane	<0.139	mg/kg	0.139	0.0404	40	11/16/20 16:00	11/25/20 02:56	75-27-4	
Bromoform	<1.39	mg/kg	1.39	0.0653	40	11/16/20 16:00	11/25/20 02:56	75-25-2	
Bromomethane	<0.697	mg/kg	0.697	0.110	40	11/16/20 16:00	11/25/20 02:56	74-83-9	
n-Butylbenzene	3.68	mg/kg	0.697	0.293	40	11/16/20 16:00	11/25/20 02:56	104-51-8	
sec-Butylbenzene	1.36	mg/kg	0.697	0.160	40	11/16/20 16:00	11/25/20 02:56	135-98-8	
tert-Butylbenzene	<0.279	mg/kg	0.279	0.109	40	11/16/20 16:00	11/25/20 02:56	98-06-6	
Carbon tetrachloride	<0.279	mg/kg	0.279	0.0501	40	11/16/20 16:00	11/25/20 02:56	56-23-5	
Chlorobenzene	<0.139	mg/kg	0.139	0.0117	40	11/16/20 16:00	11/25/20 02:56	108-90-7	
Dibromochloromethane	<0.139	mg/kg	0.139	0.0342	40	11/16/20 16:00	11/25/20 02:56	124-48-1	
Chloroethane	<0.279	mg/kg	0.279	0.0948	40	11/16/20 16:00	11/25/20 02:56	75-00-3	
Chloroform	0.656	mg/kg	0.139	0.0575	40	11/16/20 16:00	11/25/20 02:56	67-66-3	
Chloromethane	<0.697	mg/kg	0.697	0.243	40	11/16/20 16:00	11/25/20 02:56	74-87-3	
2-Chlorotoluene	<0.139	mg/kg	0.139	0.0483	40	11/16/20 16:00	11/25/20 02:56	95-49-8	
4-Chlorotoluene	<0.279	mg/kg	0.279	0.0251	40	11/16/20 16:00	11/25/20 02:56	106-43-4	
1,2-Dibromo-3-chloropropane	<1.39	mg/kg	1.39	0.218	40	11/16/20 16:00	11/25/20 02:56	96-12-8	
1,2-Dibromoethane (EDB)	<0.139	mg/kg	0.139	0.0361	40	11/16/20 16:00	11/25/20 02:56	106-93-4	
Dibromomethane	<0.279	mg/kg	0.279	0.0418	40	11/16/20 16:00	11/25/20 02:56	74-95-3	
1,2-Dichlorobenzene	<0.279	mg/kg	0.279	0.0237	40	11/16/20 16:00	11/25/20 02:56	95-50-1	
1,3-Dichlorobenzene	<0.279	mg/kg	0.279	0.0335	40	11/16/20 16:00	11/25/20 02:56	541-73-1	
1,4-Dichlorobenzene	<0.279	mg/kg	0.279	0.0391	40	11/16/20 16:00	11/25/20 02:56	106-46-7	
Dichlorodifluoromethane	<0.139	mg/kg	0.139	0.0898	40	11/16/20 16:00	11/25/20 02:56	75-71-8	
1,1-Dichloroethane	<0.139	mg/kg	0.139	0.0273	40	11/16/20 16:00	11/25/20 02:56	75-34-3	
1,2-Dichloroethane	<0.139	mg/kg	0.139	0.0363	40	11/16/20 16:00	11/25/20 02:56	107-06-2	
1,1-Dichloroethene	<0.139	mg/kg	0.139	0.0338	40	11/16/20 16:00	11/25/20 02:56	75-35-4	L0
cis-1,2-Dichloroethene	<0.139	mg/kg	0.139	0.0410	40	11/16/20 16:00	11/25/20 02:56	156-59-2	
trans-1,2-Dichloroethene	<0.279	mg/kg	0.279	0.0580	40	11/16/20 16:00	11/25/20 02:56	156-60-5	
1,2-Dichloropropane	<0.279	mg/kg	0.279	0.0792	40	11/16/20 16:00	11/25/20 02:56	78-87-5	
1,1-Dichloropropene	<0.139	mg/kg	0.139	0.0452	40	11/16/20 16:00	11/25/20 02:56	563-58-6	
1,3-Dichloropropane	<0.279	mg/kg	0.279	0.0279	40	11/16/20 16:00	11/25/20 02:56	142-28-9	
cis-1,3-Dichloropropene	<0.139	mg/kg	0.139	0.0423	40	11/16/20 16:00	11/25/20 02:56	10061-01-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 150-B**      **Lab ID: 92506486022**      Collected: 11/16/20 16:00      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.279	mg/kg	0.279	0.0636	40	11/16/20 16:00	11/25/20 02:56	10061-02-6	
2,2-Dichloropropane	<0.139	mg/kg	0.139	0.0770	40	11/16/20 16:00	11/25/20 02:56	594-20-7	
Diisopropyl ether	0.386	mg/kg	0.0558	0.0229	40	11/16/20 16:00	11/25/20 02:56	108-20-3	C5
Ethylbenzene	30.8	mg/kg	0.139	0.0411	40	11/16/20 16:00	11/25/20 02:56	100-41-4	
Hexachloro-1,3-butadiene	<1.39	mg/kg	1.39	0.335	40	11/16/20 16:00	11/25/20 02:56	87-68-3	
Isopropylbenzene (Cumene)	2.86	mg/kg	0.139	0.0237	40	11/16/20 16:00	11/25/20 02:56	98-82-8	
p-Isopropyltoluene	0.663	mg/kg	0.279	0.142	40	11/16/20 16:00	11/25/20 02:56	99-87-6	
2-Butanone (MEK)	<5.58	mg/kg	5.58	3.54	40	11/16/20 16:00	11/25/20 02:56	78-93-3	
Methylene Chloride	<1.39	mg/kg	1.39	0.371	40	11/16/20 16:00	11/25/20 02:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.39	mg/kg	1.39	0.127	40	11/16/20 16:00	11/25/20 02:56	108-10-1	
Methyl-tert-butyl ether	<0.0558	mg/kg	0.0558	0.0195	40	11/16/20 16:00	11/25/20 02:56	1634-04-4	
Naphthalene	5.33	mg/kg	0.697	0.272	40	11/16/20 16:00	11/25/20 02:56	91-20-3	
n-Propylbenzene	13.8	mg/kg	0.279	0.0530	40	11/16/20 16:00	11/25/20 02:56	103-65-1	C5
Styrene	<0.697	mg/kg	0.697	0.0128	40	11/16/20 16:00	11/25/20 02:56	100-42-5	
1,1,1,2-Tetrachloroethane	<0.139	mg/kg	0.139	0.0529	40	11/16/20 16:00	11/25/20 02:56	630-20-6	
1,1,2,2-Tetrachloroethane	<0.139	mg/kg	0.139	0.0388	40	11/16/20 16:00	11/25/20 02:56	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.139	mg/kg	0.139	0.0421	40	11/16/20 16:00	11/25/20 02:56	76-13-1	
Tetrachloroethene	<0.139	mg/kg	0.139	0.0499	40	11/16/20 16:00	11/25/20 02:56	127-18-4	
Toluene	49.2	mg/kg	0.279	0.0725	40	11/16/20 16:00	11/25/20 02:56	108-88-3	
1,2,3-Trichlorobenzene	<0.697	mg/kg	0.697	0.409	40	11/16/20 16:00	11/25/20 02:56	87-61-6	
1,2,4-Trichlorobenzene	<0.697	mg/kg	0.697	0.245	40	11/16/20 16:00	11/25/20 02:56	120-82-1	
1,1,1-Trichloroethane	<0.139	mg/kg	0.139	0.0515	40	11/16/20 16:00	11/25/20 02:56	71-55-6	
1,1,2-Trichloroethane	<0.139	mg/kg	0.139	0.0333	40	11/16/20 16:00	11/25/20 02:56	79-00-5	
Trichloroethene	<0.0558	mg/kg	0.0558	0.0326	40	11/16/20 16:00	11/25/20 02:56	79-01-6	
Trichlorofluoromethane	<0.139	mg/kg	0.139	0.0462	40	11/16/20 16:00	11/25/20 02:56	75-69-4	
1,2,3-Trichloropropane	<0.697	mg/kg	0.697	0.0904	40	11/16/20 16:00	11/25/20 02:56	96-18-4	
1,2,4-Trimethylbenzene	69.2	mg/kg	0.279	0.0882	40	11/16/20 16:00	11/25/20 02:56	95-63-6	
1,2,3-Trimethylbenzene	20.2	mg/kg	0.279	0.0882	40	11/16/20 16:00	11/25/20 02:56	526-73-8	
1,3,5-Trimethylbenzene	21.6	mg/kg	0.279	0.112	40	11/16/20 16:00	11/25/20 02:56	108-67-8	
Vinyl chloride	<0.139	mg/kg	0.139	0.0647	40	11/16/20 16:00	11/25/20 02:56	75-01-4	
Xylene (Total)	206	mg/kg	0.363	0.0491	40	11/16/20 16:00	11/25/20 02:56	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	108	%	75.0-131		40	11/16/20 16:00	11/25/20 02:56	2037-26-5	
4-Bromofluorobenzene (S)	96.0	%	67.0-138		40	11/16/20 16:00	11/25/20 02:56	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130		40	11/16/20 16:00	11/25/20 02:56	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids      **85.1**      %      1      11/30/20 07:57      11/30/20 08:44

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

**Sample: 175-W**      **Lab ID: 92506486023**      Collected: 11/16/20 16:15      Received: 11/17/20 12:40      Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEP VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>4800</b>	mg/kg	64.5	21.4	10	11/16/20 16:15	11/26/20 02:16		
Aliphatic (C09-C12)	<b>4720</b>	mg/kg	64.5	21.4	10	11/16/20 16:15	11/26/20 02:16		
Aromatic (C09-C10),Unadjusted	<b>686</b>	mg/kg	258	85.9	40	11/16/20 16:15	12/01/20 12:04	TPHC9C10A	
Total VPH	<b>9520</b>	mg/kg	64.5	21.4	10	11/16/20 16:15	11/26/20 02:16	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	91.0	%	70.0-130		10	11/16/20 16:15	11/26/20 02:16	615-59-8FID	
2,5-Dibromotoluene (FID)	91.8	%	70.0-130		40	11/16/20 16:15	12/01/20 12:04	615-59-8FID	
2,5-Dibromotoluene (PID)	84.1	%	70.0-130		10	11/16/20 16:15	11/26/20 02:16	615-59-8PID	
2,5-Dibromotoluene (PID)	86.4	%	70.0-130		40	11/16/20 16:15	12/01/20 12:04	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<b>&lt;0.254</b>	mg/kg	2.54	1.85	40	11/16/20 16:15	11/25/20 03:15	67-64-1	MH
Acrylonitrile	<b>&lt;0.635</b>	mg/kg	0.635	0.183	40	11/16/20 16:15	11/25/20 03:15	107-13-1	MH
Benzene	<b>27.4</b>	mg/kg	0.0508	0.0237	40	11/16/20 16:15	11/25/20 03:15	71-43-2	
Bromobenzene	<b>&lt;0.635</b>	mg/kg	0.635	0.0457	40	11/16/20 16:15	11/25/20 03:15	108-86-1	
Bromodichloromethane	<b>&lt;0.127</b>	mg/kg	0.127	0.0368	40	11/16/20 16:15	11/25/20 03:15	75-27-4	R1
Bromoform	<b>&lt;1.27</b>	mg/kg	1.27	0.0594	40	11/16/20 16:15	11/25/20 03:15	75-25-2	
Bromomethane	<b>&lt;0.635</b>	mg/kg	0.635	0.100	40	11/16/20 16:15	11/25/20 03:15	74-83-9	
n-Butylbenzene	<b>14.2</b>	mg/kg	0.635	0.267	40	11/16/20 16:15	11/25/20 03:15	104-51-8	
sec-Butylbenzene	<b>4.78</b>	mg/kg	0.635	0.146	40	11/16/20 16:15	11/25/20 03:15	135-98-8	
tert-Butylbenzene	<b>&lt;0.254</b>	mg/kg	0.254	0.0990	40	11/16/20 16:15	11/25/20 03:15	98-06-6	
Carbon tetrachloride	<b>&lt;0.254</b>	mg/kg	0.254	0.0456	40	11/16/20 16:15	11/25/20 03:15	56-23-5	
Chlorobenzene	<b>&lt;0.127</b>	mg/kg	0.127	0.0107	40	11/16/20 16:15	11/25/20 03:15	108-90-7	
Dibromochloromethane	<b>&lt;0.127</b>	mg/kg	0.127	0.0311	40	11/16/20 16:15	11/25/20 03:15	124-48-1	
Chloroethane	<b>&lt;0.254</b>	mg/kg	0.254	0.0863	40	11/16/20 16:15	11/25/20 03:15	75-00-3	
Chloroform	<b>&lt;0.127</b>	mg/kg	0.127	0.0523	40	11/16/20 16:15	11/25/20 03:15	67-66-3	MH
Chloromethane	<b>&lt;0.635</b>	mg/kg	0.635	0.221	40	11/16/20 16:15	11/25/20 03:15	74-87-3	
2-Chlorotoluene	<b>&lt;0.127</b>	mg/kg	0.127	0.0439	40	11/16/20 16:15	11/25/20 03:15	95-49-8	
4-Chlorotoluene	<b>&lt;0.254</b>	mg/kg	0.254	0.0228	40	11/16/20 16:15	11/25/20 03:15	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;1.27</b>	mg/kg	1.27	0.198	40	11/16/20 16:15	11/25/20 03:15	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.127</b>	mg/kg	0.127	0.0329	40	11/16/20 16:15	11/25/20 03:15	106-93-4	
Dibromomethane	<b>&lt;0.254</b>	mg/kg	0.254	0.0381	40	11/16/20 16:15	11/25/20 03:15	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.254</b>	mg/kg	0.254	0.0216	40	11/16/20 16:15	11/25/20 03:15	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.254</b>	mg/kg	0.254	0.0305	40	11/16/20 16:15	11/25/20 03:15	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.254</b>	mg/kg	0.254	0.0355	40	11/16/20 16:15	11/25/20 03:15	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.127</b>	mg/kg	0.127	0.0817	40	11/16/20 16:15	11/25/20 03:15	75-71-8	MH
1,1-Dichloroethane	<b>&lt;0.127</b>	mg/kg	0.127	0.0249	40	11/16/20 16:15	11/25/20 03:15	75-34-3	MH
1,2-Dichloroethane	<b>&lt;0.127</b>	mg/kg	0.127	0.0330	40	11/16/20 16:15	11/25/20 03:15	107-06-2	
1,1-Dichloroethene	<b>&lt;0.127</b>	mg/kg	0.127	0.0307	40	11/16/20 16:15	11/25/20 03:15	75-35-4	L0
cis-1,2-Dichloroethene	<b>&lt;0.127</b>	mg/kg	0.127	0.0373	40	11/16/20 16:15	11/25/20 03:15	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.254</b>	mg/kg	0.254	0.0528	40	11/16/20 16:15	11/25/20 03:15	156-60-5	
1,2-Dichloropropane	<b>&lt;0.254</b>	mg/kg	0.254	0.0721	40	11/16/20 16:15	11/25/20 03:15	78-87-5	MH,R1
1,1-Dichloropropene	<b>&lt;0.127</b>	mg/kg	0.127	0.0411	40	11/16/20 16:15	11/25/20 03:15	563-58-6	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506486

Sample: 175-W Lab ID: 92506486023 Collected: 11/16/20 16:15 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.254	mg/kg	0.254	0.0254	40	11/16/20 16:15	11/25/20 03:15	142-28-9	
cis-1,3-Dichloropropene	<0.127	mg/kg	0.127	0.0385	40	11/16/20 16:15	11/25/20 03:15	10061-01-5	
trans-1,3-Dichloropropene	<0.254	mg/kg	0.254	0.0579	40	11/16/20 16:15	11/25/20 03:15	10061-02-6	
2,2-Dichloropropane	<0.127	mg/kg	0.127	0.0701	40	11/16/20 16:15	11/25/20 03:15	594-20-7	R1
Diisopropyl ether	11.0	mg/kg	0.0508	0.0208	40	11/16/20 16:15	11/25/20 03:15	108-20-3	C5
Ethylbenzene	193	mg/kg	2.54	0.749	800	11/16/20 16:15	11/27/20 16:59	100-41-4	
Hexachloro-1,3-butadiene	<1.27	mg/kg	1.27	0.305	40	11/16/20 16:15	11/25/20 03:15	87-68-3	MH
Isopropylbenzene (Cumene)	16.1	mg/kg	0.127	0.0216	40	11/16/20 16:15	11/25/20 03:15	98-82-8	
p-Isopropyltoluene	2.64	mg/kg	0.254	0.129	40	11/16/20 16:15	11/25/20 03:15	99-87-6	
2-Butanone (MEK)	<5.08	mg/kg	5.08	3.22	40	11/16/20 16:15	11/25/20 03:15	78-93-3	MH
Methylene Chloride	<1.27	mg/kg	1.27	0.338	40	11/16/20 16:15	11/25/20 03:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.27	mg/kg	1.27	0.116	40	11/16/20 16:15	11/25/20 03:15	108-10-1	MH
Methyl-tert-butyl ether	0.588	mg/kg	0.0508	0.0178	40	11/16/20 16:15	11/25/20 03:15	1634-04-4	
Naphthalene	29.2	mg/kg	0.635	0.247	40	11/16/20 16:15	11/25/20 03:15	91-20-3	P6
n-Propylbenzene	68.5	mg/kg	0.254	0.0482	40	11/16/20 16:15	11/25/20 03:15	103-65-1	C5,P6
Styrene	<0.635	mg/kg	0.635	0.0116	40	11/16/20 16:15	11/25/20 03:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.127	mg/kg	0.127	0.0481	40	11/16/20 16:15	11/25/20 03:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.127	mg/kg	0.127	0.0353	40	11/16/20 16:15	11/25/20 03:15	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.127	mg/kg	0.127	0.0383	40	11/16/20 16:15	11/25/20 03:15	76-13-1	
Tetrachloroethene	<0.127	mg/kg	0.127	0.0454	40	11/16/20 16:15	11/25/20 03:15	127-18-4	
Toluene	348	mg/kg	5.08	1.32	800	11/16/20 16:15	11/27/20 16:59	108-88-3	
1,2,3-Trichlorobenzene	<0.635	mg/kg	0.635	0.372	40	11/16/20 16:15	11/25/20 03:15	87-61-6	
1,2,4-Trichlorobenzene	<0.635	mg/kg	0.635	0.223	40	11/16/20 16:15	11/25/20 03:15	120-82-1	
1,1,1-Trichloroethane	<0.127	mg/kg	0.127	0.0468	40	11/16/20 16:15	11/25/20 03:15	71-55-6	
1,1,2-Trichloroethane	<0.127	mg/kg	0.127	0.0303	40	11/16/20 16:15	11/25/20 03:15	79-00-5	MH
Trichloroethene	<0.0508	mg/kg	0.0508	0.0297	40	11/16/20 16:15	11/25/20 03:15	79-01-6	
Trichlorofluoromethane	<0.127	mg/kg	0.127	0.0420	40	11/16/20 16:15	11/25/20 03:15	75-69-4	
1,2,3-Trichloropropane	<0.635	mg/kg	0.635	0.0822	40	11/16/20 16:15	11/25/20 03:15	96-18-4	
1,2,4-Trimethylbenzene	277	mg/kg	5.08	1.60	800	11/16/20 16:15	11/27/20 16:59	95-63-6	
1,2,3-Trimethylbenzene	84.5	mg/kg	0.254	0.0802	40	11/16/20 16:15	11/25/20 03:15	526-73-8	P6
1,3,5-Trimethylbenzene	98.0	mg/kg	0.254	0.102	40	11/16/20 16:15	11/25/20 03:15	108-67-8	P6
Vinyl chloride	<0.127	mg/kg	0.127	0.0589	40	11/16/20 16:15	11/25/20 03:15	75-01-4	
Xylene (Total)	1250	mg/kg	6.60	0.893	800	11/16/20 16:15	11/27/20 16:59	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		40	11/16/20 16:15	11/25/20 03:15	2037-26-5	
Toluene-d8 (S)	104	%	75.0-131		800	11/16/20 16:15	11/27/20 16:59	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67.0-138		40	11/16/20 16:15	11/25/20 03:15	460-00-4	
4-Bromofluorobenzene (S)	94.6	%	67.0-138		800	11/16/20 16:15	11/27/20 16:59	460-00-4	
1,2-Dichloroethane-d4 (S)	128	%	70.0-130		40	11/16/20 16:15	11/25/20 03:15	17060-07-0	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130		800	11/16/20 16:15	11/27/20 16:59	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids 88.4 % 1 11/30/20 07:57 11/30/20 08:44

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 175-B Lab ID: 92506486024 Collected: 11/16/20 16:20 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>									
Analytical Method: MADEP VPH Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	2750	mg/kg	114	37.8	20	11/16/20 16:20	12/01/20 11:31		
Aliphatic (C09-C12)	2250	mg/kg	22.7	7.57	4	11/16/20 16:20	11/26/20 02:50		
Aromatic (C09-C10),Unadjusted	650	mg/kg	114	37.8	20	11/16/20 16:20	12/01/20 11:31	TPHC9C10A	
Total VPH	2250	mg/kg	22.7	7.57	4	11/16/20 16:20	11/26/20 02:50	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	95.0	%	70.0-130		4	11/16/20 16:20	11/26/20 02:50	615-59-8FID	
2,5-Dibromotoluene (FID)	88.4	%	70.0-130		20	11/16/20 16:20	12/01/20 11:31	615-59-8FID	
2,5-Dibromotoluene (PID)	85.7	%	70.0-130		4	11/16/20 16:20	11/26/20 02:50	615-59-8PID	
2,5-Dibromotoluene (PID)	83.6	%	70.0-130		20	11/16/20 16:20	12/01/20 11:31	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.114	mg/kg	1.14	0.835	20	11/16/20 16:20	11/25/20 03:34	67-64-1	
Acrylonitrile	<0.286	mg/kg	0.286	0.0826	20	11/16/20 16:20	11/25/20 03:34	107-13-1	
Benzene	10.8	mg/kg	0.0229	0.0107	20	11/16/20 16:20	11/25/20 03:34	71-43-2	
Bromobenzene	<0.286	mg/kg	0.286	0.0206	20	11/16/20 16:20	11/25/20 03:34	108-86-1	
Bromodichloromethane	<0.0572	mg/kg	0.0572	0.0166	20	11/16/20 16:20	11/25/20 03:34	75-27-4	
Bromoform	<0.572	mg/kg	0.572	0.0268	20	11/16/20 16:20	11/25/20 03:34	75-25-2	
Bromomethane	<0.286	mg/kg	0.286	0.0451	20	11/16/20 16:20	11/25/20 03:34	74-83-9	
n-Butylbenzene	8.44	mg/kg	0.286	0.120	20	11/16/20 16:20	11/25/20 03:34	104-51-8	
sec-Butylbenzene	2.37	mg/kg	0.286	0.0659	20	11/16/20 16:20	11/25/20 03:34	135-98-8	
tert-Butylbenzene	<0.114	mg/kg	0.114	0.0446	20	11/16/20 16:20	11/25/20 03:34	98-06-6	
Carbon tetrachloride	<0.114	mg/kg	0.114	0.0206	20	11/16/20 16:20	11/25/20 03:34	56-23-5	
Chlorobenzene	<0.0572	mg/kg	0.0572	0.00480	20	11/16/20 16:20	11/25/20 03:34	108-90-7	
Dibromochloromethane	<0.0572	mg/kg	0.0572	0.0140	20	11/16/20 16:20	11/25/20 03:34	124-48-1	
Chloroethane	<0.114	mg/kg	0.114	0.0389	20	11/16/20 16:20	11/25/20 03:34	75-00-3	
Chloroform	1.84	mg/kg	0.0572	0.0236	20	11/16/20 16:20	11/25/20 03:34	67-66-3	
Chloromethane	<0.286	mg/kg	0.286	0.0995	20	11/16/20 16:20	11/25/20 03:34	74-87-3	
2-Chlorotoluene	<0.0572	mg/kg	0.0572	0.0198	20	11/16/20 16:20	11/25/20 03:34	95-49-8	
4-Chlorotoluene	<0.114	mg/kg	0.114	0.0103	20	11/16/20 16:20	11/25/20 03:34	106-43-4	
1,2-Dibromo-3-chloropropane	<0.572	mg/kg	0.572	0.0892	20	11/16/20 16:20	11/25/20 03:34	96-12-8	
1,2-Dibromoethane (EDB)	<0.0572	mg/kg	0.0572	0.0149	20	11/16/20 16:20	11/25/20 03:34	106-93-4	
Dibromomethane	<0.114	mg/kg	0.114	0.0172	20	11/16/20 16:20	11/25/20 03:34	74-95-3	
1,2-Dichlorobenzene	<0.114	mg/kg	0.114	0.00972	20	11/16/20 16:20	11/25/20 03:34	95-50-1	
1,3-Dichlorobenzene	<0.114	mg/kg	0.114	0.0137	20	11/16/20 16:20	11/25/20 03:34	541-73-1	
1,4-Dichlorobenzene	<0.114	mg/kg	0.114	0.0160	20	11/16/20 16:20	11/25/20 03:34	106-46-7	
Dichlorodifluoromethane	<0.0572	mg/kg	0.0572	0.0368	20	11/16/20 16:20	11/25/20 03:34	75-71-8	
1,1-Dichloroethane	<0.0572	mg/kg	0.0572	0.0112	20	11/16/20 16:20	11/25/20 03:34	75-34-3	
1,2-Dichloroethane	<0.0572	mg/kg	0.0572	0.0149	20	11/16/20 16:20	11/25/20 03:34	107-06-2	
1,1-Dichloroethene	<0.0572	mg/kg	0.0572	0.0138	20	11/16/20 16:20	11/25/20 03:34	75-35-4	LO
cis-1,2-Dichloroethene	<0.0572	mg/kg	0.0572	0.0168	20	11/16/20 16:20	11/25/20 03:34	156-59-2	
trans-1,2-Dichloroethene	<0.114	mg/kg	0.114	0.0238	20	11/16/20 16:20	11/25/20 03:34	156-60-5	
1,2-Dichloropropane	<0.114	mg/kg	0.114	0.0325	20	11/16/20 16:20	11/25/20 03:34	78-87-5	
1,1-Dichloropropene	<0.0572	mg/kg	0.0572	0.0185	20	11/16/20 16:20	11/25/20 03:34	563-58-6	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506486

Sample: 175-B Lab ID: 92506486024 Collected: 11/16/20 16:20 Received: 11/17/20 12:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.114	mg/kg	0.114	0.0114	20	11/16/20 16:20	11/25/20 03:34	142-28-9	
cis-1,3-Dichloropropene	<0.0572	mg/kg	0.0572	0.0173	20	11/16/20 16:20	11/25/20 03:34	10061-01-5	
trans-1,3-Dichloropropene	<0.114	mg/kg	0.114	0.0261	20	11/16/20 16:20	11/25/20 03:34	10061-02-6	
2,2-Dichloropropane	<0.0572	mg/kg	0.0572	0.0316	20	11/16/20 16:20	11/25/20 03:34	594-20-7	
Diisopropyl ether	<0.0229	mg/kg	0.0229	0.00938	20	11/16/20 16:20	11/25/20 03:34	108-20-3	
Ethylbenzene	87.8	mg/kg	1.14	0.337	400	11/16/20 16:20	11/27/20 17:18	100-41-4	
Hexachloro-1,3-butadiene	<0.572	mg/kg	0.572	0.137	20	11/16/20 16:20	11/25/20 03:34	87-68-3	
Isopropylbenzene (Cumene)	6.85	mg/kg	0.0572	0.00972	20	11/16/20 16:20	11/25/20 03:34	98-82-8	
p-Isopropyltoluene	1.40	mg/kg	0.114	0.0583	20	11/16/20 16:20	11/25/20 03:34	99-87-6	
2-Butanone (MEK)	23.1	mg/kg	2.29	1.45	20	11/16/20 16:20	11/25/20 03:34	78-93-3	C5
Methylene Chloride	<0.572	mg/kg	0.572	0.152	20	11/16/20 16:20	11/25/20 03:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.572	mg/kg	0.572	0.0522	20	11/16/20 16:20	11/25/20 03:34	108-10-1	
Methyl-tert-butyl ether	<0.0229	mg/kg	0.0229	0.00801	20	11/16/20 16:20	11/25/20 03:34	1634-04-4	
Naphthalene	25.3	mg/kg	0.286	0.112	20	11/16/20 16:20	11/25/20 03:34	91-20-3	
n-Propylbenzene	32.5	mg/kg	0.114	0.0217	20	11/16/20 16:20	11/25/20 03:34	103-65-1	C5
Styrene	<0.286	mg/kg	0.286	0.00524	20	11/16/20 16:20	11/25/20 03:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0572	mg/kg	0.0572	0.0217	20	11/16/20 16:20	11/25/20 03:34	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0572	mg/kg	0.0572	0.0159	20	11/16/20 16:20	11/25/20 03:34	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0572	mg/kg	0.0572	0.0173	20	11/16/20 16:20	11/25/20 03:34	76-13-1	
Tetrachloroethene	<0.0572	mg/kg	0.0572	0.0205	20	11/16/20 16:20	11/25/20 03:34	127-18-4	
Toluene	136	mg/kg	2.29	0.595	400	11/16/20 16:20	11/27/20 17:18	108-88-3	
1,2,3-Trichlorobenzene	<0.286	mg/kg	0.286	0.168	20	11/16/20 16:20	11/25/20 03:34	87-61-6	
1,2,4-Trichlorobenzene	<0.286	mg/kg	0.286	0.101	20	11/16/20 16:20	11/25/20 03:34	120-82-1	
1,1,1-Trichloroethane	<0.0572	mg/kg	0.0572	0.0212	20	11/16/20 16:20	11/25/20 03:34	71-55-6	
1,1,2-Trichloroethane	<0.0572	mg/kg	0.0572	0.0136	20	11/16/20 16:20	11/25/20 03:34	79-00-5	
Trichloroethene	<0.0229	mg/kg	0.0229	0.0134	20	11/16/20 16:20	11/25/20 03:34	79-01-6	
Trichlorofluoromethane	<0.0572	mg/kg	0.0572	0.0189	20	11/16/20 16:20	11/25/20 03:34	75-69-4	
1,2,3-Trichloropropane	<0.286	mg/kg	0.286	0.0371	20	11/16/20 16:20	11/25/20 03:34	96-18-4	
1,2,4-Trimethylbenzene	141	mg/kg	2.29	0.723	400	11/16/20 16:20	11/27/20 17:18	95-63-6	
1,2,3-Trimethylbenzene	44.9	mg/kg	0.114	0.0361	20	11/16/20 16:20	11/25/20 03:34	526-73-8	
1,3,5-Trimethylbenzene	49.1	mg/kg	0.114	0.0457	20	11/16/20 16:20	11/25/20 03:34	108-67-8	
Vinyl chloride	<0.0572	mg/kg	0.0572	0.0265	20	11/16/20 16:20	11/25/20 03:34	75-01-4	
Xylene (Total)	559	mg/kg	2.97	0.403	400	11/16/20 16:20	11/27/20 17:18	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	102	%	75.0-131		20	11/16/20 16:20	11/25/20 03:34	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131		400	11/16/20 16:20	11/27/20 17:18	2037-26-5	
4-Bromofluorobenzene (S)	89.6	%	67.0-138		20	11/16/20 16:20	11/25/20 03:34	460-00-4	
4-Bromofluorobenzene (S)	94.3	%	67.0-138		400	11/16/20 16:20	11/27/20 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	136	%	70.0-130		20	11/16/20 16:20	11/25/20 03:34	17060-07-0	ST
1,2-Dichloroethane-d4 (S)	109	%	70.0-130		400	11/16/20 16:20	11/27/20 17:18	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids 93.7 % 1 11/30/20 07:57 11/30/20 08:44

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506486

QC Batch: 1581281 Analysis Method: MADEP VPH  
QC Batch Method: MADEPV Analysis Description: MADEPV  
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506486001, 92506486002, 92506486003, 92506486004, 92506486005

METHOD BLANK: R3597451-3 Matrix: Solid  
Associated Lab Samples: 92506486001, 92506486002, 92506486003, 92506486004, 92506486005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	<5.00	5.00	1.67	11/23/20 18:38	
Aliphatic (C09-C12)	mg/kg	<5.00	5.00	1.67	11/23/20 18:38	
Aromatic (C09-C10),Unadjusted	mg/kg	<5.00	5.00	1.67	11/23/20 18:38	
Total VPH	mg/kg	<5.00	5.00	1.67	11/23/20 18:38	
2,5-Dibromotoluene (FID)	%	77	70.0-130		11/23/20 18:38	
2,5-Dibromotoluene (PID)	%	76.7	70.0-130		11/23/20 18:38	

Parameter	Units	R3597451-1		R3597451-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	mg/kg	60.0	50.5	49.3	84.2	82.2	70.0-130	2.40	25
Aliphatic (C09-C12)	mg/kg	70.0	67.3	65.7	96.1	93.9	70.0-130	2.41	25
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	9.74	9.56	97.4	95.6	70.0-130	1.87	25
Total VPH	mg/kg	140	128	125	91.4	89.3	70.0-130	2.37	25
2,5-Dibromotoluene (FID)	%				84.3	86.1	70.0-130		
2,5-Dibromotoluene (PID)	%				86.2	87.7	70.0-130		

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506486

QC Batch: 1581671      Analysis Method: MADEP VPH  
QC Batch Method: MADEPV      Analysis Description: MADEPV  
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506486006, 92506486007, 92506486008, 92506486010, 92506486012, 92506486013

METHOD BLANK: R3598732-3      Matrix: Solid  
Associated Lab Samples: 92506486006, 92506486007, 92506486008, 92506486010, 92506486012, 92506486013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	<5.00	5.00	1.67	11/24/20 10:38	
Aliphatic (C09-C12)	mg/kg	<5.00	5.00	1.67	11/24/20 10:38	
Aromatic (C09-C10),Unadjusted	mg/kg	<5.00	5.00	1.67	11/24/20 10:38	
Total VPH	mg/kg	<5.00	5.00	1.67	11/24/20 10:38	
2,5-Dibromotoluene (FID)	%	77.2	70.0-130		11/24/20 10:38	
2,5-Dibromotoluene (PID)	%	74.4	70.0-130		11/24/20 10:38	

Parameter	Units	R3598732-1		R3598732-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	mg/kg	60.0	45.8	46.3	76.3	77.2	70.0-130	1.09	25
Aliphatic (C09-C12)	mg/kg	70.0	61.6	62.1	88.0	88.7	70.0-130	0.808	25
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	8.90	8.96	89.0	89.6	70.0-130	0.672	25
Total VPH	mg/kg	140	116	117	82.9	83.6	70.0-130	0.858	25
2,5-Dibromotoluene (FID)	%				88.0	90.1	70.0-130		
2,5-Dibromotoluene (PID)	%				88.3	90.3	70.0-130		

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506486

QC Batch:	1582430	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506486014, 92506486015, 92506486016, 92506486017, 92506486018, 92506486019, 92506486020, 92506486021, 92506486022, 92506486023, 92506486024

METHOD BLANK: R3598492-2 Matrix: Solid  
Associated Lab Samples: 92506486014, 92506486015, 92506486016, 92506486017, 92506486018, 92506486019, 92506486020, 92506486021, 92506486022, 92506486023, 92506486024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	<5.00	5.00	1.67	11/25/20 14:52	
Aliphatic (C09-C12)	mg/kg	<5.00	5.00	1.67	11/25/20 14:52	
Aromatic (C09-C10),Unadjusted	mg/kg	<5.00	5.00	1.67	11/25/20 14:52	
Total VPH	mg/kg	<5.00	5.00	1.67	11/25/20 14:52	
2,5-Dibromotoluene (FID)	%	82.1	70.0-130		11/25/20 14:52	
2,5-Dibromotoluene (PID)	%	76.2	70.0-130		11/25/20 14:52	

LABORATORY CONTROL SAMPLE & LCSD: R3598492-1 R3598492-5

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	60.0	49.7	54.9	82.8	91.5	70.0-130	9.94	25	
Aliphatic (C09-C12)	mg/kg	70.0	64.7	69.9	92.4	99.9	70.0-130	7.73	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	8.60	10.1	86.0	101	70.0-130	16.0	25	
Total VPH	mg/kg	140	123	135	87.9	96.4	70.0-130	9.30	25	
2,5-Dibromotoluene (FID)	%				84.1	88.3	70.0-130			
2,5-Dibromotoluene (PID)	%				79.4	77.5	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3598492-3 R3598492-4

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92506486022 Result	Spike Conc.	Spike Conc.	MS Result						
Aliphatic (C05-C08)	mg/kg	894	634	634	1220	1220	51.8	51.6	70.0-130	0.115	25 ML
Aliphatic (C09-C12)	mg/kg	472	740	740	996	1000	70.9	71.4	70.0-130	0.423	25
Aromatic (C09-C10),Unadjusted	mg/kg	216	106	106	272	262	53.3	44.0	70.0-130	3.69	25 ML
Total VPH	mg/kg	1580	1480	1480	2490	2480	61.9	61.0	70.0-130	0.567	25 ML
2,5-Dibromotoluene (FID)	%						90.6	88.6	70.0-130		
2,5-Dibromotoluene (PID)	%						85.6	84.0	70.0-130		

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506486

QC Batch:	1584209	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506486020, 92506486023, 92506486024

METHOD BLANK: R3599095-3 Matrix: Solid

Associated Lab Samples: 92506486020, 92506486023, 92506486024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	<5.00	5.00	1.67	12/01/20 06:32	
Aromatic (C09-C10),Unadjusted	mg/kg	<5.00	5.00	1.67	12/01/20 06:32	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130		12/01/20 06:32	
2,5-Dibromotoluene (PID)	%	83.9	70.0-130		12/01/20 06:32	

LABORATORY CONTROL SAMPLE & LCSD: R3599095-1 R3599095-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	60.0	47.3	47.5	78.8	79.2	70.0-130	0.422	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	9.22	9.19	92.2	91.9	70.0-130	0.326	25	
2,5-Dibromotoluene (FID)	%				95.4	95.1	70.0-130			
2,5-Dibromotoluene (PID)	%				91.7	91.2	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506486

QC Batch: 1584348      Analysis Method: MADEP VPH  
QC Batch Method: MADEPV      Analysis Description: MADEPV  
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506486009, 92506486010, 92506486011, 92506486012, 92506486013

METHOD BLANK: R3599096-3      Matrix: Solid  
Associated Lab Samples: 92506486009, 92506486010, 92506486011, 92506486012, 92506486013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	<5.00	5.00	1.67	12/01/20 06:32	
Aliphatic (C09-C12)	mg/kg	<5.00	5.00	1.67	12/01/20 06:32	
Aromatic (C09-C10),Unadjusted	mg/kg	<5.00	5.00	1.67	12/01/20 06:32	
Total VPH	mg/kg	<5.00	5.00	1.67	12/01/20 06:32	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130		12/01/20 06:32	
2,5-Dibromotoluene (PID)	%	83.9	70.0-130		12/01/20 06:32	

Parameter	Units	R3599096-1		R3599096-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	mg/kg	60.0	47.3	47.5	78.8	79.2	70.0-130	0.422	25
Aliphatic (C09-C12)	mg/kg	70.0	64.9	65.1	92.7	93.0	70.0-130	0.308	25
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	9.22	9.19	92.2	91.9	70.0-130	0.326	25
Total VPH	mg/kg	140	121	122	86.4	87.1	70.0-130	0.823	25
2,5-Dibromotoluene (FID)	%				95.4	95.1	70.0-130		
2,5-Dibromotoluene (PID)	%				91.7	91.2	70.0-130		

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506486

QC Batch: 1581174      Analysis Method: EPA 8260D  
QC Batch Method: 5035A      Analysis Description: VOA (GC/MS) 8260D  
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506486001, 92506486002, 92506486003, 92506486004, 92506486005

METHOD BLANK: R3597546-2      Matrix: Solid  
Associated Lab Samples: 92506486001, 92506486002, 92506486003, 92506486004, 92506486005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	mg/kg	<0.0500	0.0500	0.0365	11/23/20 10:59	
Acrylonitrile	mg/kg	<0.0125	0.0125	0.00361	11/23/20 10:59	
Benzene	mg/kg	<0.00100	0.00100	0.000467	11/23/20 10:59	
Bromobenzene	mg/kg	<0.0125	0.0125	0.000900	11/23/20 10:59	
Bromodichloromethane	mg/kg	<0.00250	0.00250	0.000725	11/23/20 10:59	
Bromoform	mg/kg	<0.0250	0.0250	0.00117	11/23/20 10:59	
Bromomethane	mg/kg	<0.0125	0.0125	0.00197	11/23/20 10:59	
n-Butylbenzene	mg/kg	<0.0125	0.0125	0.00525	11/23/20 10:59	
sec-Butylbenzene	mg/kg	<0.0125	0.0125	0.00288	11/23/20 10:59	
tert-Butylbenzene	mg/kg	<0.00500	0.00500	0.00195	11/23/20 10:59	
Carbon tetrachloride	mg/kg	<0.00500	0.00500	0.000898	11/23/20 10:59	
Chlorobenzene	mg/kg	<0.00250	0.00250	0.000210	11/23/20 10:59	
Dibromochloromethane	mg/kg	<0.00250	0.00250	0.000612	11/23/20 10:59	
Chloroethane	mg/kg	<0.00500	0.00500	0.00170	11/23/20 10:59	
Chloroform	mg/kg	<0.00250	0.00250	0.00103	11/23/20 10:59	
Chloromethane	mg/kg	<0.0125	0.0125	0.00435	11/23/20 10:59	
2-Chlorotoluene	mg/kg	<0.00250	0.00250	0.000865	11/23/20 10:59	
4-Chlorotoluene	mg/kg	<0.00500	0.00500	0.000450	11/23/20 10:59	
1,2-Dibromo-3-chloropropane	mg/kg	<0.0250	0.0250	0.00390	11/23/20 10:59	
1,2-Dibromoethane (EDB)	mg/kg	<0.00250	0.00250	0.000648	11/23/20 10:59	
Dibromomethane	mg/kg	<0.00500	0.00500	0.000750	11/23/20 10:59	
1,2-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000425	11/23/20 10:59	
1,3-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000600	11/23/20 10:59	
1,4-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000700	11/23/20 10:59	
Dichlorodifluoromethane	mg/kg	<0.00250	0.00250	0.00161	11/23/20 10:59	
1,1-Dichloroethane	mg/kg	<0.00250	0.00250	0.000491	11/23/20 10:59	
1,2-Dichloroethane	mg/kg	<0.00250	0.00250	0.000649	11/23/20 10:59	
1,1-Dichloroethene	mg/kg	<0.00250	0.00250	0.000606	11/23/20 10:59	
cis-1,2-Dichloroethene	mg/kg	<0.00250	0.00250	0.000734	11/23/20 10:59	
trans-1,2-Dichloroethene	mg/kg	<0.00500	0.00500	0.00104	11/23/20 10:59	
1,2-Dichloropropane	mg/kg	<0.00500	0.00500	0.00142	11/23/20 10:59	
1,1-Dichloropropene	mg/kg	<0.00250	0.00250	0.000809	11/23/20 10:59	
1,3-Dichloropropane	mg/kg	<0.00500	0.00500	0.000501	11/23/20 10:59	
cis-1,3-Dichloropropene	mg/kg	<0.00250	0.00250	0.000757	11/23/20 10:59	
trans-1,3-Dichloropropene	mg/kg	<0.00500	0.00500	0.00114	11/23/20 10:59	
2,2-Dichloropropane	mg/kg	<0.00250	0.00250	0.00138	11/23/20 10:59	
Diisopropyl ether	mg/kg	<0.00100	0.00100	0.000410	11/23/20 10:59	
Ethylbenzene	mg/kg	<0.00250	0.00250	0.000737	11/23/20 10:59	
Hexachloro-1,3-butadiene	mg/kg	<0.0250	0.0250	0.00600	11/23/20 10:59	
Isopropylbenzene (Cumene)	mg/kg	<0.00250	0.00250	0.000425	11/23/20 10:59	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506486

METHOD BLANK: R3597546-2

Matrix: Solid

Associated Lab Samples: 92506486001, 92506486002, 92506486003, 92506486004, 92506486005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
p-Isopropyltoluene	mg/kg	<0.00500	0.00500	0.00255	11/23/20 10:59	
2-Butanone (MEK)	mg/kg	<0.100	0.100	0.0635	11/23/20 10:59	
Methylene Chloride	mg/kg	<0.0250	0.0250	0.00664	11/23/20 10:59	
4-Methyl-2-pentanone (MIBK)	mg/kg	<0.0250	0.0250	0.00228	11/23/20 10:59	
Methyl-tert-butyl ether	mg/kg	<0.00100	0.00100	0.000350	11/23/20 10:59	
Naphthalene	mg/kg	<0.0125	0.0125	0.00488	11/23/20 10:59	
n-Propylbenzene	mg/kg	<0.00500	0.00500	0.000950	11/23/20 10:59	
Styrene	mg/kg	<0.0125	0.0125	0.000229	11/23/20 10:59	
1,1,1,2-Tetrachloroethane	mg/kg	<0.00250	0.00250	0.000948	11/23/20 10:59	
1,1,2,2-Tetrachloroethane	mg/kg	<0.00250	0.00250	0.000695	11/23/20 10:59	
Tetrachloroethene	mg/kg	<0.00250	0.00250	0.000896	11/23/20 10:59	
Toluene	mg/kg	<0.00500	0.00500	0.00130	11/23/20 10:59	
1,1,2-Trichlorotrifluoroethane	mg/kg	<0.00250	0.00250	0.000754	11/23/20 10:59	
1,2,3-Trichlorobenzene	mg/kg	<0.0125	0.0125	0.00733	11/23/20 10:59	
1,2,4-Trichlorobenzene	mg/kg	<0.0125	0.0125	0.00440	11/23/20 10:59	
1,1,1-Trichloroethane	mg/kg	<0.00250	0.00250	0.000923	11/23/20 10:59	
1,1,2-Trichloroethane	mg/kg	<0.00250	0.00250	0.000597	11/23/20 10:59	
Trichloroethene	mg/kg	<0.00100	0.00100	0.000584	11/23/20 10:59	
Trichlorofluoromethane	mg/kg	<0.00250	0.00250	0.000827	11/23/20 10:59	
1,2,3-Trichloropropane	mg/kg	<0.0125	0.0125	0.00162	11/23/20 10:59	
1,2,3-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/23/20 10:59	
1,2,4-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/23/20 10:59	
1,3,5-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00200	11/23/20 10:59	
Vinyl chloride	mg/kg	<0.00250	0.00250	0.00116	11/23/20 10:59	
Xylene (Total)	mg/kg	<0.00650	0.00650	0.000880	11/23/20 10:59	
Toluene-d8 (S)	%	112	75.0-131		11/23/20 10:59	
4-Bromofluorobenzene (S)	%	91.2	67.0-138		11/23/20 10:59	
1,2-Dichloroethane-d4 (S)	%	104	70.0-130		11/23/20 10:59	

LABORATORY CONTROL SAMPLE: R3597546-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	mg/kg	0.625	0.737	118	10.0-160	
Acrylonitrile	mg/kg	0.625	0.857	137	45.0-153	
Benzene	mg/kg	0.125	0.133	106	70.0-123	
Bromobenzene	mg/kg	0.125	0.137	110	73.0-121	
Bromodichloromethane	mg/kg	0.125	0.135	108	73.0-121	
Bromoform	mg/kg	0.125	0.132	106	64.0-132	
Bromomethane	mg/kg	0.125	0.136	109	56.0-147	
n-Butylbenzene	mg/kg	0.125	0.128	102	68.0-135	
sec-Butylbenzene	mg/kg	0.125	0.131	105	74.0-130	
tert-Butylbenzene	mg/kg	0.125	0.127	102	75.0-127	
Carbon tetrachloride	mg/kg	0.125	0.148	118	66.0-128	
Chlorobenzene	mg/kg	0.125	0.130	104	76.0-128	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506486

LABORATORY CONTROL SAMPLE: R3597546-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	mg/kg	0.125	0.116	92.8	74.0-127	
Chloroethane	mg/kg	0.125	0.150	120	61.0-134	
Chloroform	mg/kg	0.125	0.137	110	72.0-123	
Chloromethane	mg/kg	0.125	0.146	117	51.0-138	
2-Chlorotoluene	mg/kg	0.125	0.138	110	75.0-124	
4-Chlorotoluene	mg/kg	0.125	0.139	111	75.0-124	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.120	96.0	59.0-130	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.126	101	74.0-128	
Dibromomethane	mg/kg	0.125	0.130	104	75.0-122	
1,2-Dichlorobenzene	mg/kg	0.125	0.130	104	76.0-124	
1,3-Dichlorobenzene	mg/kg	0.125	0.134	107	76.0-125	
1,4-Dichlorobenzene	mg/kg	0.125	0.124	99.2	77.0-121	
Dichlorodifluoromethane	mg/kg	0.125	0.148	118	43.0-156	
1,1-Dichloroethane	mg/kg	0.125	0.152	122	70.0-127	
1,2-Dichloroethane	mg/kg	0.125	0.121	96.8	65.0-131	
1,1-Dichloroethene	mg/kg	0.125	0.164	131	65.0-131	
cis-1,2-Dichloroethene	mg/kg	0.125	0.148	118	73.0-125	
trans-1,2-Dichloroethene	mg/kg	0.125	0.139	111	71.0-125	
1,2-Dichloropropane	mg/kg	0.125	0.137	110	74.0-125	
1,1-Dichloropropene	mg/kg	0.125	0.141	113	73.0-125	
1,3-Dichloropropane	mg/kg	0.125	0.136	109	80.0-125	
cis-1,3-Dichloropropene	mg/kg	0.125	0.130	104	76.0-127	
trans-1,3-Dichloropropene	mg/kg	0.125	0.137	110	73.0-127	
2,2-Dichloropropane	mg/kg	0.125	0.132	106	59.0-135	
Diisopropyl ether	mg/kg	0.125	0.148	118	60.0-136	
Ethylbenzene	mg/kg	0.125	0.125	100	74.0-126	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.133	106	57.0-150	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.128	102	72.0-127	
p-Isopropyltoluene	mg/kg	0.125	0.124	99.2	72.0-133	
2-Butanone (MEK)	mg/kg	0.625	0.841	135	30.0-160	
Methylene Chloride	mg/kg	0.125	0.140	112	68.0-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.709	113	56.0-143	
Methyl-tert-butyl ether	mg/kg	0.125	0.148	118	66.0-132	
Naphthalene	mg/kg	0.125	0.0970	77.6	59.0-130	
n-Propylbenzene	mg/kg	0.125	0.146	117	74.0-126	
Styrene	mg/kg	0.125	0.122	97.6	72.0-127	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.125	100	74.0-129	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.130	104	68.0-128	
Tetrachloroethene	mg/kg	0.125	0.139	111	70.0-136	
Toluene	mg/kg	0.125	0.130	104	75.0-121	
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.121	96.8	61.0-139	
1,2,3-Trichlorobenzene	mg/kg	0.125	0.114	91.2	59.0-139	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.117	93.6	62.0-137	
1,1,1-Trichloroethane	mg/kg	0.125	0.136	109	69.0-126	
1,1,2-Trichloroethane	mg/kg	0.125	0.127	102	78.0-123	
Trichloroethene	mg/kg	0.125	0.134	107	76.0-126	
Trichlorofluoromethane	mg/kg	0.125	0.149	119	61.0-142	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506486

LABORATORY CONTROL SAMPLE: R3597546-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	0.125	0.139	111	67.0-129	
1,2,3-Trimethylbenzene	mg/kg	0.125	0.126	101	74.0-124	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.128	102	70.0-126	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.137	110	73.0-127	
Vinyl chloride	mg/kg	0.125	0.142	114	63.0-134	
Xylene (Total)	mg/kg	0.375	0.390	104	72.0-127	
Toluene-d8 (S)	%			105	75.0-131	
4-Bromofluorobenzene (S)	%			94.8	67.0-138	
1,2-Dichloroethane-d4 (S)	%			114	70.0-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3597546-3 R3597546-4

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	mg/kg		17.6	17.6	9.53	14.7	69.1	106	10.0-160	42.4	40	R1
Acrylonitrile	mg/kg		17.6	17.6	16.4	18.4	119	133	10.0-160	11.4	40	
Benzene	mg/kg		3.53	3.53	2.89	3.25	94.8	108	10.0-149	11.7	37	
Bromobenzene	mg/kg		3.53	3.53	2.81	3.18	101	115	10.0-156	12.4	38	
Bromodichloromethane	mg/kg		3.53	3.53	2.73	3.12	98.7	113	10.0-143	13.2	37	
Bromoform	mg/kg		3.53	3.53	2.94	3.01	106	109	10.0-146	2.09	36	
Bromomethane	mg/kg		3.53	3.53	2.93	3.13	106	113	10.0-149	6.56	38	
n-Butylbenzene	mg/kg		3.53	3.53	2.73	3.18	91.6	108	10.0-160	15.1	40	
sec-Butylbenzene	mg/kg		3.53	3.53	2.78	3.18	100	115	10.0-159	13.3	39	
tert-Butylbenzene	mg/kg		3.53	3.53	2.63	3.02	95.1	109	10.0-156	13.6	39	
Carbon tetrachloride	mg/kg		3.53	3.53	2.87	3.28	104	118	10.0-145	13.3	37	
Chlorobenzene	mg/kg		3.53	3.53	2.67	2.98	96.4	108	10.0-152	11.0	39	
Dibromochloromethane	mg/kg		3.53	3.53	2.51	2.76	90.6	99.6	10.0-146	9.43	37	
Chloroethane	mg/kg		3.53	3.53	3.04	2.94	110	106	10.0-146	3.32	40	
Chloroform	mg/kg		3.53	3.53	2.74	3.09	99.1	112	10.0-146	11.9	37	
Chloromethane	mg/kg		3.53	3.53	3.12	3.69	113	133	10.0-159	16.8	37	
2-Chlorotoluene	mg/kg		3.53	3.53	2.91	3.29	105	119	10.0-159	12.4	38	
4-Chlorotoluene	mg/kg		3.53	3.53	2.89	3.30	104	119	10.0-155	13.2	39	
1,2-Dibromo-3-chloropropane	mg/kg		3.53	3.53	2.66	3.04	96.0	110	10.0-151	13.5	39	
1,2-Dibromoethane (EDB)	mg/kg		3.53	3.53	2.73	2.88	98.7	104	10.0-148	5.31	34	
Dibromomethane	mg/kg		3.53	3.53	2.67	2.79	96.4	101	10.0-147	4.55	35	
1,2-Dichlorobenzene	mg/kg		3.53	3.53	2.73	3.06	98.7	110	10.0-155	11.2	37	
1,3-Dichlorobenzene	mg/kg		3.53	3.53	2.72	3.04	98.2	110	10.0-153	11.2	38	
1,4-Dichlorobenzene	mg/kg		3.53	3.53	2.67	3.01	96.4	109	10.0-151	11.8	38	
Dichlorodifluoromethane	mg/kg		3.53	3.53	3.35	3.99	121	144	10.0-160	17.3	35	
1,1-Dichloroethane	mg/kg		3.53	3.53	2.91	3.22	105	116	10.0-147	10.1	37	
1,2-Dichloroethane	mg/kg		3.53	3.53	2.73	2.84	98.7	103	10.0-148	4.01	35	
1,1-Dichloroethene	mg/kg		3.53	3.53	3.14	3.54	113	128	10.0-155	11.9	37	
cis-1,2-Dichloroethene	mg/kg		3.53	3.53	2.89	3.22	104	116	10.0-149	10.6	37	
trans-1,2-Dichloroethene	mg/kg		3.53	3.53	2.77	3.15	100	114	10.0-150	13.0	37	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506486

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3597546-3			R3597546-4									
Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		
1,2-Dichloropropane	mg/kg		3.53	3.53	2.68	3.25	96.9	117	10.0-148	19.2	37	
1,1-Dichloropropene	mg/kg		3.53	3.53	2.74	3.23	99.1	117	10.0-153	16.2	35	
1,3-Dichloropropane	mg/kg		3.53	3.53	2.79	3.24	101	117	10.0-154	14.8	35	
cis-1,3-Dichloropropene	mg/kg		3.53	3.53	2.68	3.17	96.9	114	10.0-151	16.6	37	
trans-1,3-Dichloropropene	mg/kg		3.53	3.53	2.93	3.33	106	120	10.0-148	12.7	37	
2,2-Dichloropropane	mg/kg		3.53	3.53	2.82	3.37	102	122	10.0-138	17.7	36	
Diisopropyl ether	mg/kg		3.53	3.53	2.92	3.15	105	114	10.0-147	7.77	36	
Ethylbenzene	mg/kg		3.53	3.53	2.71	2.97	90.9	100	10.0-160	9.19	38	
Hexachloro-1,3-butadiene	mg/kg		3.53	3.53	2.83	3.68	102	133	10.0-160	26.0	40	
Isopropylbenzene (Cumene)	mg/kg		3.53	3.53	2.65	3.01	93.3	106	10.0-155	12.7	38	
p-Isopropyltoluene	mg/kg		3.53	3.53	2.65	3.06	95.5	110	10.0-160	14.4	40	
2-Butanone (MEK)	mg/kg		17.6	17.6	17.5	19.4	127	141	10.0-160	10.1	40	
Methylene Chloride	mg/kg		3.53	3.53	2.73	3.07	98.7	111	10.0-141	11.6	37	
4-Methyl-2-pentanone (MIBK)	mg/kg		17.6	17.6	14.4	15.9	105	115	10.0-160	9.84	35	
Methyl-tert-butyl ether	mg/kg		3.53	3.53	3.03	3.19	109	115	11.0-147	5.19	35	
Naphthalene	mg/kg		3.53	3.53	2.48	2.97	41.7	59.2	10.0-160	17.8	36	
n-Propylbenzene	mg/kg		3.53	3.53	3.09	3.47	96.8	110	10.0-158	11.4	38	
Styrene	mg/kg		3.53	3.53	2.58	2.83	93.3	102	10.0-160	9.17	40	
1,1,1,2-Tetrachloroethane	mg/kg		3.53	3.53	2.61	2.89	94.2	104	10.0-149	10.4	39	
1,1,2,2-Tetrachloroethane	mg/kg		3.53	3.53	2.86	2.97	103	107	10.0-160	3.84	35	
Tetrachloroethene	mg/kg		3.53	3.53	2.94	3.49	106	126	10.0-156	17.0	39	
Toluene	mg/kg		3.53	3.53	3.29	3.76	85.6	103	10.0-156	13.4	38	
1,1,2-Trichlorotrifluoroethane	mg/kg		3.53	3.53	2.47	2.97	89.2	107	10.0-160	18.3	36	
1,2,3-Trichlorobenzene	mg/kg		3.53	3.53	2.82	3.34	102	121	10.0-160	16.9	40	
1,2,4-Trichlorobenzene	mg/kg		3.53	3.53	2.48	3.20	89.7	116	10.0-160	25.3	40	
1,1,1-Trichloroethane	mg/kg		3.53	3.53	2.76	3.15	99.6	114	10.0-144	13.4	35	
1,1,2-Trichloroethane	mg/kg		3.53	3.53	2.78	3.06	100	110	10.0-160	9.36	35	
Trichloroethene	mg/kg		3.53	3.53	2.63	3.08	95.1	111	10.0-156	15.7	38	
Trichlorofluoromethane	mg/kg		3.53	3.53	3.27	3.71	118	134	10.0-160	12.8	40	
1,2,3-Trichloropropane	mg/kg		3.53	3.53	3.09	3.20	112	116	10.0-156	3.55	35	
1,2,3-Trimethylbenzene	mg/kg		3.53	3.53	2.70	3.08	67.7	81.6	10.0-160	13.3	36	
1,2,4-Trimethylbenzene	mg/kg		3.53	3.53	3.03	3.17	12.1	17.0	10.0-160	4.41	36	
1,3,5-Trimethylbenzene	mg/kg		3.53	3.53	2.93	3.28	75.3	87.9	10.0-160	11.2	38	
Vinyl chloride	mg/kg		3.53	3.53	3.13	3.78	113	136	10.0-160	18.7	37	
Xylene (Total)	mg/kg		10.6	10.6	8.27	9.18	78.7	89.7	10.0-160	10.4	38	
Toluene-d8 (S)	%						107	108	75.0-131			
4-Bromofluorobenzene (S)	%						95.4	93.8	67.0-138			
1,2-Dichloroethane-d4 (S)	%						110	111	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506486

QC Batch:	1582010	Analysis Method:	EPA 8260D
QC Batch Method:	5035A	Analysis Description:	VOA (GC/MS) 8260D
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506486006, 92506486007, 92506486008, 92506486009, 92506486010, 92506486011, 92506486012, 92506486013, 92506486014, 92506486015, 92506486016, 92506486017, 92506486018, 92506486019, 92506486020, 92506486021, 92506486022, 92506486023, 92506486024

METHOD BLANK: R3597323-2 Matrix: Solid

Associated Lab Samples: 92506486006, 92506486007, 92506486008, 92506486009, 92506486010, 92506486011, 92506486012, 92506486013, 92506486014, 92506486015, 92506486016, 92506486017, 92506486018, 92506486019, 92506486020, 92506486021, 92506486022, 92506486023, 92506486024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	mg/kg	<0.0500	0.0500	0.0365	11/24/20 20:06	
Acrylonitrile	mg/kg	<0.0125	0.0125	0.00361	11/24/20 20:06	
Benzene	mg/kg	<0.00100	0.00100	0.000467	11/24/20 20:06	
Bromobenzene	mg/kg	<0.0125	0.0125	0.000900	11/24/20 20:06	
Bromodichloromethane	mg/kg	<0.00250	0.00250	0.000725	11/24/20 20:06	
Bromoform	mg/kg	<0.0250	0.0250	0.00117	11/24/20 20:06	
Bromomethane	mg/kg	<0.0125	0.0125	0.00197	11/24/20 20:06	
n-Butylbenzene	mg/kg	<0.0125	0.0125	0.00525	11/24/20 20:06	
sec-Butylbenzene	mg/kg	<0.0125	0.0125	0.00288	11/24/20 20:06	
tert-Butylbenzene	mg/kg	<0.00500	0.00500	0.00195	11/24/20 20:06	
Carbon tetrachloride	mg/kg	<0.00500	0.00500	0.000898	11/24/20 20:06	
Chlorobenzene	mg/kg	<0.00250	0.00250	0.000210	11/24/20 20:06	
Dibromochloromethane	mg/kg	<0.00250	0.00250	0.000612	11/24/20 20:06	
Chloroethane	mg/kg	<0.00500	0.00500	0.00170	11/24/20 20:06	
Chloroform	mg/kg	<0.00250	0.00250	0.00103	11/24/20 20:06	
Chloromethane	mg/kg	<0.0125	0.0125	0.00435	11/24/20 20:06	
2-Chlorotoluene	mg/kg	<0.00250	0.00250	0.000865	11/24/20 20:06	
4-Chlorotoluene	mg/kg	<0.00500	0.00500	0.000450	11/24/20 20:06	
1,2-Dibromo-3-chloropropane	mg/kg	<0.0250	0.0250	0.00390	11/24/20 20:06	
1,2-Dibromoethane (EDB)	mg/kg	<0.00250	0.00250	0.000648	11/24/20 20:06	
Dibromomethane	mg/kg	<0.00500	0.00500	0.000750	11/24/20 20:06	
1,2-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000425	11/24/20 20:06	
1,3-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000600	11/24/20 20:06	
1,4-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000700	11/24/20 20:06	
Dichlorodifluoromethane	mg/kg	<0.00250	0.00250	0.00161	11/24/20 20:06	
1,1-Dichloroethane	mg/kg	<0.00250	0.00250	0.000491	11/24/20 20:06	
1,2-Dichloroethane	mg/kg	<0.00250	0.00250	0.000649	11/24/20 20:06	
1,1-Dichloroethene	mg/kg	<0.00250	0.00250	0.000606	11/24/20 20:06	
cis-1,2-Dichloroethene	mg/kg	<0.00250	0.00250	0.000734	11/24/20 20:06	
trans-1,2-Dichloroethene	mg/kg	<0.00500	0.00500	0.00104	11/24/20 20:06	
1,2-Dichloropropane	mg/kg	<0.00500	0.00500	0.00142	11/24/20 20:06	
1,1-Dichloropropene	mg/kg	<0.00250	0.00250	0.000809	11/24/20 20:06	
1,3-Dichloropropane	mg/kg	<0.00500	0.00500	0.000501	11/24/20 20:06	
cis-1,3-Dichloropropene	mg/kg	<0.00250	0.00250	0.000757	11/24/20 20:06	
trans-1,3-Dichloropropene	mg/kg	<0.00500	0.00500	0.00114	11/24/20 20:06	
2,2-Dichloropropane	mg/kg	<0.00250	0.00250	0.00138	11/24/20 20:06	
Diisopropyl ether	mg/kg	<0.00100	0.00100	0.000410	11/24/20 20:06	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506486

METHOD BLANK: R3597323-2

Matrix: Solid

Associated Lab Samples: 92506486006, 92506486007, 92506486008, 92506486009, 92506486010, 92506486011, 92506486012, 92506486013, 92506486014, 92506486015, 92506486016, 92506486017, 92506486018, 92506486019, 92506486020, 92506486021, 92506486022, 92506486023, 92506486024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	mg/kg	<0.00250	0.00250	0.000737	11/24/20 20:06	
Hexachloro-1,3-butadiene	mg/kg	<0.0250	0.0250	0.00600	11/24/20 20:06	
Isopropylbenzene (Cumene)	mg/kg	<0.00250	0.00250	0.000425	11/24/20 20:06	
p-Isopropyltoluene	mg/kg	<0.00500	0.00500	0.00255	11/24/20 20:06	
2-Butanone (MEK)	mg/kg	<0.100	0.100	0.0635	11/24/20 20:06	
Methylene Chloride	mg/kg	<0.0250	0.0250	0.00664	11/24/20 20:06	
4-Methyl-2-pentanone (MIBK)	mg/kg	<0.0250	0.0250	0.00228	11/24/20 20:06	
Methyl-tert-butyl ether	mg/kg	<0.00100	0.00100	0.000350	11/24/20 20:06	
Naphthalene	mg/kg	<0.0125	0.0125	0.00488	11/24/20 20:06	
n-Propylbenzene	mg/kg	<0.00500	0.00500	0.000950	11/24/20 20:06	
Styrene	mg/kg	<0.0125	0.0125	0.000229	11/24/20 20:06	
1,1,1,2-Tetrachloroethane	mg/kg	<0.00250	0.00250	0.000948	11/24/20 20:06	
1,1,2,2-Tetrachloroethane	mg/kg	<0.00250	0.00250	0.000695	11/24/20 20:06	
Tetrachloroethene	mg/kg	<0.00250	0.00250	0.000896	11/24/20 20:06	
Toluene	mg/kg	<0.00500	0.00500	0.00130	11/24/20 20:06	
1,1,2-Trichlorotrifluoroethane	mg/kg	<0.00250	0.00250	0.000754	11/24/20 20:06	
1,2,3-Trichlorobenzene	mg/kg	<0.0125	0.0125	0.00733	11/24/20 20:06	
1,2,4-Trichlorobenzene	mg/kg	<0.0125	0.0125	0.00440	11/24/20 20:06	
1,1,1-Trichloroethane	mg/kg	<0.00250	0.00250	0.000923	11/24/20 20:06	
1,1,2-Trichloroethane	mg/kg	<0.00250	0.00250	0.000597	11/24/20 20:06	
Trichloroethene	mg/kg	<0.00100	0.00100	0.000584	11/24/20 20:06	
Trichlorofluoromethane	mg/kg	<0.00250	0.00250	0.000827	11/24/20 20:06	
1,2,3-Trichloropropane	mg/kg	<0.0125	0.0125	0.00162	11/24/20 20:06	
1,2,3-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/24/20 20:06	
1,2,4-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/24/20 20:06	
1,3,5-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00200	11/24/20 20:06	
Vinyl chloride	mg/kg	<0.00250	0.00250	0.00116	11/24/20 20:06	
Xylene (Total)	mg/kg	<0.00650	0.00650	0.000880	11/24/20 20:06	
Toluene-d8 (S)	%	111	75.0-131		11/24/20 20:06	
4-Bromofluorobenzene (S)	%	89.8	67.0-138		11/24/20 20:06	
1,2-Dichloroethane-d4 (S)	%	108	70.0-130		11/24/20 20:06	

LABORATORY CONTROL SAMPLE: R3597323-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	mg/kg	0.625	0.700	112	10.0-160	
Acrylonitrile	mg/kg	0.625	0.884	141	45.0-153	
Benzene	mg/kg	0.125	0.131	105	70.0-123	
Bromobenzene	mg/kg	0.125	0.136	109	73.0-121	
Bromodichloromethane	mg/kg	0.125	0.134	107	73.0-121	
Bromoform	mg/kg	0.125	0.128	102	64.0-132	
Bromomethane	mg/kg	0.125	0.130	104	56.0-147	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506486

LABORATORY CONTROL SAMPLE: R3597323-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	mg/kg	0.125	0.139	111	68.0-135	
sec-Butylbenzene	mg/kg	0.125	0.139	111	74.0-130	
tert-Butylbenzene	mg/kg	0.125	0.134	107	75.0-127	
Carbon tetrachloride	mg/kg	0.125	0.135	108	66.0-128	
Chlorobenzene	mg/kg	0.125	0.126	101	76.0-128	
Dibromochloromethane	mg/kg	0.125	0.117	93.6	74.0-127	
Chloroethane	mg/kg	0.125	0.144	115	61.0-134	
Chloroform	mg/kg	0.125	0.137	110	72.0-123	
Chloromethane	mg/kg	0.125	0.160	128	51.0-138	
2-Chlorotoluene	mg/kg	0.125	0.146	117	75.0-124	
4-Chlorotoluene	mg/kg	0.125	0.146	117	75.0-124	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.129	103	59.0-130	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.128	102	74.0-128	
Dibromomethane	mg/kg	0.125	0.134	107	75.0-122	
1,2-Dichlorobenzene	mg/kg	0.125	0.133	106	76.0-124	
1,3-Dichlorobenzene	mg/kg	0.125	0.130	104	76.0-125	
1,4-Dichlorobenzene	mg/kg	0.125	0.129	103	77.0-121	
Dichlorodifluoromethane	mg/kg	0.125	0.161	129	43.0-156	
1,1-Dichloroethane	mg/kg	0.125	0.145	116	70.0-127	
1,2-Dichloroethane	mg/kg	0.125	0.131	105	65.0-131	
1,1-Dichloroethene	mg/kg	0.125	0.167	134	65.0-131	LO
cis-1,2-Dichloroethene	mg/kg	0.125	0.142	114	73.0-125	
trans-1,2-Dichloroethene	mg/kg	0.125	0.133	106	71.0-125	
1,2-Dichloropropane	mg/kg	0.125	0.141	113	74.0-125	
1,1-Dichloropropene	mg/kg	0.125	0.139	111	73.0-125	
1,3-Dichloropropane	mg/kg	0.125	0.136	109	80.0-125	
cis-1,3-Dichloropropene	mg/kg	0.125	0.133	106	76.0-127	
trans-1,3-Dichloropropene	mg/kg	0.125	0.142	114	73.0-127	
2,2-Dichloropropane	mg/kg	0.125	0.144	115	59.0-135	
Diisopropyl ether	mg/kg	0.125	0.155	124	60.0-136	
Ethylbenzene	mg/kg	0.125	0.129	103	74.0-126	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.134	107	57.0-150	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.127	102	72.0-127	
p-Isopropyltoluene	mg/kg	0.125	0.129	103	72.0-133	
2-Butanone (MEK)	mg/kg	0.625	0.819	131	30.0-160	
Methylene Chloride	mg/kg	0.125	0.147	118	68.0-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.772	124	56.0-143	
Methyl-tert-butyl ether	mg/kg	0.125	0.143	114	66.0-132	
Naphthalene	mg/kg	0.125	0.108	86.4	59.0-130	
n-Propylbenzene	mg/kg	0.125	0.154	123	74.0-126	
Styrene	mg/kg	0.125	0.121	96.8	72.0-127	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.121	96.8	74.0-129	
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.148	118	68.0-128	
Tetrachloroethene	mg/kg	0.125	0.136	109	70.0-136	
Toluene	mg/kg	0.125	0.129	103	75.0-121	
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.120	96.0	61.0-139	
1,2,3-Trichlorobenzene	mg/kg	0.125	0.130	104	59.0-139	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506486

LABORATORY CONTROL SAMPLE: R3597323-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	0.125	0.123	98.4	62.0-137	
1,1,1-Trichloroethane	mg/kg	0.125	0.132	106	69.0-126	
1,1,2-Trichloroethane	mg/kg	0.125	0.133	106	78.0-123	
Trichloroethene	mg/kg	0.125	0.122	97.6	76.0-126	
Trichlorofluoromethane	mg/kg	0.125	0.143	114	61.0-142	
1,2,3-Trichloropropane	mg/kg	0.125	0.140	112	67.0-129	
1,2,3-Trimethylbenzene	mg/kg	0.125	0.129	103	74.0-124	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.135	108	70.0-126	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.141	113	73.0-127	
Vinyl chloride	mg/kg	0.125	0.148	118	63.0-134	
Xylene (Total)	mg/kg	0.375	0.366	97.6	72.0-127	
Toluene-d8 (S)	%			104	75.0-131	
4-Bromofluorobenzene (S)	%			93.4	67.0-138	
1,2-Dichloroethane-d4 (S)	%			114	70.0-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3597323-3 R3597323-4

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92506486023 Result	Spike Conc.	Spike Conc.	MSD Conc.								
Acetone	mg/kg	ND	30.2	30.2	30.2	165	154	618	576	10.0-160	7.04	40	MH
Acrylonitrile	mg/kg	ND	30.2	30.2	30.2	64.6	57.1	242	214	10.0-160	12.4	40	MH
Bromobenzene	mg/kg	ND	6.03	6.03	6.03	6.81	6.20	128	116	10.0-156	9.31	38	
Benzene	mg/kg	24.2	6.03	6.03	6.03	28.6	26.5	82.1	42.1	10.0-149	7.74	37	
Bromodichloromethane	mg/kg	ND	6.03	6.03	6.03	6.91	3.24	130	60.8	10.0-143	72.3	37	R1
Bromoform	mg/kg	ND	6.03	6.03	6.03	6.87	7.22	129	136	10.0-146	5.10	36	
Bromomethane	mg/kg	ND	6.03	6.03	6.03	6.15	4.95	115	92.8	10.0-149	21.6	38	
n-Butylbenzene	mg/kg	12.6	6.03	6.03	6.03	19.4	19.4	128	128	10.0-160	0.00	40	
sec-Butylbenzene	mg/kg	4.23	6.03	6.03	6.03	10.8	9.54	124	99.6	10.0-159	12.6	39	
tert-Butylbenzene	mg/kg	ND	6.03	6.03	6.03	6.65	5.65	125	106	10.0-156	16.2	39	
Carbon tetrachloride	mg/kg	ND	6.03	6.03	6.03	6.91	5.27	130	98.9	10.0-145	26.9	37	
Chlorobenzene	mg/kg	ND	6.03	6.03	6.03	6.35	6.16	119	116	10.0-152	3.05	39	
Dibromochloromethane	mg/kg	ND	6.03	6.03	6.03	5.88	6.09	110	114	10.0-146	3.56	37	
Chloroethane	mg/kg	ND	6.03	6.03	6.03	6.34	5.38	119	101	10.0-146	16.3	40	
Chloroform	mg/kg	ND	6.03	6.03	6.03	8.20	6.97	154	131	10.0-146	16.3	37	MH
Chloromethane	mg/kg	ND	6.03	6.03	6.03	7.93	6.73	149	126	10.0-159	16.4	37	
2-Chlorotoluene	mg/kg	ND	6.03	6.03	6.03	7.13	6.18	134	116	10.0-159	14.3	38	
4-Chlorotoluene	mg/kg	ND	6.03	6.03	6.03	7.20	6.27	135	118	10.0-155	13.8	39	
1,2-Dibromo-3-chloropropane	mg/kg	ND	6.03	6.03	6.03	7.16	6.96	134	131	10.0-151	2.86	39	
1,2-Dibromoethane (EDB)	mg/kg	ND	6.03	6.03	6.03	6.11	6.43	115	121	10.0-148	5.01	34	
Dibromomethane	mg/kg	ND	6.03	6.03	6.03	5.61	5.79	105	109	10.0-147	3.15	35	
1,2-Dichlorobenzene	mg/kg	ND	6.03	6.03	6.03	6.81	6.10	128	115	10.0-155	10.9	37	
1,3-Dichlorobenzene	mg/kg	ND	6.03	6.03	6.03	6.89	5.98	129	112	10.0-153	14.1	38	
1,4-Dichlorobenzene	mg/kg	ND	6.03	6.03	6.03	6.55	5.92	123	111	10.0-151	10.1	38	
Dichlorodifluoromethane	mg/kg	ND	6.03	6.03	6.03	8.76	6.34	164	119	10.0-160	32.1	35	MH

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**QUALITY CONTROL DATA**

Project: 2020-LI-2448

Pace Project No.: 92506486

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3597323-3				R3597323-4									
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92506486023 Result	Spike Conc.	Spike Conc.	MS Conc.								
1,1-Dichloroethane	mg/kg	ND	6.03	6.03	7.91	6.63	148	124	10.0-147	17.6	37	MH	
1,2-Dichloroethane	mg/kg	ND	6.03	6.03	6.18	5.56	116	104	10.0-148	10.5	35		
1,1-Dichloroethene	mg/kg	ND	6.03	6.03	7.85	5.91	147	111	10.0-155	28.2	37		
cis-1,2-Dichloroethene	mg/kg	ND	6.03	6.03	7.57	5.86	142	110	10.0-149	25.6	37		
trans-1,2-Dichloroethene	mg/kg	ND	6.03	6.03	6.42	5.08	120	95.4	10.0-150	23.2	37		
1,2-Dichloropropane	mg/kg	ND	6.03	6.03	9.22	5.96	173	112	10.0-148	43.0	37	MH,R1	
1,1-Dichloropropene	mg/kg	ND	6.03	6.03	6.84	5.27	128	98.9	10.0-153	25.9	35		
1,3-Dichloropropane	mg/kg	ND	6.03	6.03	6.55	6.88	123	129	10.0-154	4.85	35		
cis-1,3-Dichloropropene	mg/kg	ND	6.03	6.03	6.44	5.63	121	106	10.0-151	13.4	37		
trans-1,3-Dichloropropene	mg/kg	ND	6.03	6.03	6.89	7.12	129	134	10.0-148	3.36	37		
2,2-Dichloropropane	mg/kg	ND	6.03	6.03	5.12	2.82	96.0	52.8	10.0-138	58.0	36	R1	
Diisopropyl ether	mg/kg	9.73	6.03	6.03	16.0	14.8	119	95.4	10.0-147	8.00	36		
Ethylbenzene	mg/kg	202	6.03	6.03	177	190	0.00	0.00	10.0-160	6.73	38	E,P6	
Hexachloro-1,3-butadiene	mg/kg	ND	6.03	6.03	9.62	8.74	181	164	10.0-160	9.65	40	MH	
Isopropylbenzene (Cumene)	mg/kg	14.2	6.03	6.03	18.5	19.1	80.0	90.5	10.0-155	2.99	38		
p-Isopropyltoluene	mg/kg	2.33	6.03	6.03	9.51	8.35	135	113	10.0-160	13.1	40		
2-Butanone (MEK)	mg/kg	ND	30.2	30.2	68.5	67.3	257	252	10.0-160	1.82	40	MH	
Methylene Chloride	mg/kg	ND	6.03	6.03	5.81	5.54	109	104	10.0-141	4.74	37		
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	30.2	30.2	50.3	53.3	188	200	10.0-160	5.85	35	MH	
Methyl-tert-butyl ether	mg/kg	0.519	6.03	6.03	7.55	6.93	132	120	11.0-147	8.52	35		
Naphthalene	mg/kg	25.8	6.03	6.03	44.9	44.8	358	356	10.0-160	0.250	36	P6	
n-Propylbenzene	mg/kg	60.6	6.03	6.03	60.6	58.0	0.00	0.00	10.0-158	4.35	38	P6	
Styrene	mg/kg	ND	6.03	6.03	6.46	6.36	121	119	10.0-160	1.57	40		
1,1,1,2-Tetrachloroethane	mg/kg	ND	6.03	6.03	6.19	6.19	116	116	10.0-149	0.00	39		
1,1,2,2-Tetrachloroethane	mg/kg	ND	6.03	6.03	7.17	7.53	135	141	10.0-160	4.89	35		
Tetrachloroethene	mg/kg	ND	6.03	6.03	7.15	6.42	134	120	10.0-156	10.8	39		
Toluene	mg/kg	205	6.03	6.03	183	197	0.00	0.00	10.0-156	7.67	38	E,P6	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	6.03	6.03	7.38	5.21	139	97.7	10.0-160	34.6	36		
1,2,3-Trichlorobenzene	mg/kg	ND	6.03	6.03	7.56	7.96	142	149	10.0-160	5.20	40		
1,2,4-Trichlorobenzene	mg/kg	ND	6.03	6.03	7.00	7.27	131	136	10.0-160	3.77	40		
1,1,1-Trichloroethane	mg/kg	ND	6.03	6.03	6.41	5.63	120	106	10.0-144	12.9	35		
1,1,2-Trichloroethane	mg/kg	ND	6.03	6.03	10.4	10.7	195	201	10.0-160	2.66	35	MH	
Trichloroethene	mg/kg	ND	6.03	6.03	6.32	5.23	119	98.1	10.0-156	18.9	38		
Trichlorofluoromethane	mg/kg	ND	6.03	6.03	8.03	5.72	151	107	10.0-160	33.6	40		
1,2,3-Trichloropropane	mg/kg	ND	6.03	6.03	6.99	6.39	131	120	10.0-156	8.89	35		
1,2,3-Trimethylbenzene	mg/kg	74.7	6.03	6.03	76.8	73.7	40.0	0.00	10.0-160	4.17	36	P6	
1,2,4-Trimethylbenzene	mg/kg	218	6.03	6.03	202	194	0.00	0.00	10.0-160	3.97	36	E,P6	
1,3,5-Trimethylbenzene	mg/kg	86.6	6.03	6.03	84.5	81.2	0.00	0.00	10.0-160	3.93	38	P6	
Vinyl chloride	mg/kg	ND	6.03	6.03	7.67	5.50	144	103	10.0-160	33.0	37		
Xylene (Total)	mg/kg	810	18.1	18.1	715	776	0.00	0.00	10.0-160	8.28	38	P6	
Toluene-d8 (S)	%						100	115	75.0-131				
4-Bromofluorobenzene (S)	%						89.9	97.5	67.0-138				
1,2-Dichloroethane-d4 (S)	%						131	126	70.0-130				ST

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506486

QC Batch: 1582486      Analysis Method: EPA 8260D  
QC Batch Method: 5035A      Analysis Description: VOA (GC/MS) 8260D  
Laboratory: Pace National - Mt. Juliet  
Associated Lab Samples: 92506486007, 92506486009, 92506486010, 92506486023, 92506486024

METHOD BLANK: R3598085-3      Matrix: Solid  
Associated Lab Samples: 92506486007, 92506486009, 92506486010, 92506486023, 92506486024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	mg/kg	<0.00250	0.00250	0.000737	11/27/20 10:43	
n-Propylbenzene	mg/kg	<0.00500	0.00500	0.000950	11/27/20 10:43	
Toluene	mg/kg	<0.00500	0.00500	0.00130	11/27/20 10:43	
1,2,3-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/27/20 10:43	
1,2,4-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/27/20 10:43	
1,3,5-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00200	11/27/20 10:43	
Xylene (Total)	mg/kg	<0.00650	0.00650	0.000880	11/27/20 10:43	
Toluene-d8 (S)	%	109	75.0-131		11/27/20 10:43	
4-Bromofluorobenzene (S)	%	94.3	67.0-138		11/27/20 10:43	
1,2-Dichloroethane-d4 (S)	%	109	70.0-130		11/27/20 10:43	

LABORATORY CONTROL SAMPLE & LCSD: R3598085-1      R3598085-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethylbenzene	mg/kg	0.125	0.125	0.122	100	97.6	74.0-126	2.43	20	
n-Propylbenzene	mg/kg	0.125	0.146	0.148	117	118	74.0-126	1.36	20	
Toluene	mg/kg	0.125	0.130	0.123	104	98.4	75.0-121	5.53	20	
1,2,3-Trimethylbenzene	mg/kg	0.125	0.123	0.126	98.4	101	74.0-124	2.41	20	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.128	0.130	102	104	70.0-126	1.55	20	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.135	0.135	108	108	73.0-127	0.00	20	
Xylene (Total)	mg/kg	0.375	0.370	0.366	98.7	97.6	72.0-127	1.09	20	
Toluene-d8 (S)	%				107	104	75.0-131			
4-Bromofluorobenzene (S)	%				92.8	94.8	67.0-138			
1,2-Dichloroethane-d4 (S)	%				111	119	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506486

QC Batch: 1581972	Analysis Method: SM 2540G
QC Batch Method: SM 2540 G	Analysis Description: Total Solids 2540 G-2011
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506486001, 92506486002, 92506486003, 92506486004, 92506486005

METHOD BLANK: R3597438-1 Matrix: Solid

Associated Lab Samples: 92506486001, 92506486002, 92506486003, 92506486004, 92506486005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	ND			11/25/20 04:13	

LABORATORY CONTROL SAMPLE: R3597438-2

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

SAMPLE DUPLICATE: R3597438-3

Parameter	Units	L1289338-02 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	88.8	88.7	0.191	10	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506486

QC Batch: 1582961      Analysis Method: SM 2540G  
QC Batch Method: SM 2540 G      Analysis Description: Total Solids 2540 G-2011  
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506486006, 92506486007, 92506486008, 92506486009, 92506486010, 92506486011

METHOD BLANK: R3598609-1      Matrix: Solid  
Associated Lab Samples: 92506486006, 92506486007, 92506486008, 92506486009, 92506486010, 92506486011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	ND			11/30/20 07:38	

LABORATORY CONTROL SAMPLE: R3598609-2

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

SAMPLE DUPLICATE: R3598609-3

Parameter	Units	92506486011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	75.6	76.5	1.21	10	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506486

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QC Batch:	1582979	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540 G	Analysis Description:	Total Solids 2540 G-2011
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506486012, 92506486013, 92506486014, 92506486015, 92506486016, 92506486017, 92506486018, 92506486019, 92506486020, 92506486021

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METHOD BLANK: R3598612-1 Matrix: Solid  
Associated Lab Samples: 92506486012, 92506486013, 92506486014, 92506486015, 92506486016, 92506486017, 92506486018, 92506486019, 92506486020, 92506486021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	0.00100			11/30/20 07:55	

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LABORATORY CONTROL SAMPLE: R3598612-2

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

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SAMPLE DUPLICATE: R3598612-3

Parameter	Units	92506486012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	74.8	76.0	1.59	10	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506486

QC Batch: 1582980      Analysis Method: SM 2540G  
QC Batch Method: SM 2540 G      Analysis Description: Total Solids 2540 G-2011  
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506486022, 92506486023, 92506486024

METHOD BLANK: R3598621-1      Matrix: Solid

Associated Lab Samples: 92506486022, 92506486023, 92506486024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	ND			11/30/20 08:44	

LABORATORY CONTROL SAMPLE: R3598621-2

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

SAMPLE DUPLICATE: R3598621-3

Parameter	Units	92506486022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	85.1	83.1	2.40	10	

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## QUALIFIERS

Project: 2020-LI-2448

Pace Project No.: 92506486

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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.

### ANALYTE QUALIFIERS

- |    |  |
|----|--|
| C3 | The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.                    |
| C4 | The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.   |
| C5 | The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result. |
| E  | Analyte concentration exceeded the calibration range. The reported result is estimated.  |
| J  | Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.   |
| L0 | Analyte recovery in the laboratory control sample (LCS) was outside QC limits.   |
| MH | Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.   |
| ML | Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.  |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.  |
| R1 | RPD value was outside control limits.  |
| ST | Surrogate recovery was above laboratory control limits. Results may be biased high.  |

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448  
Pace Project No.: 92506486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506486001	0-W	MADEPV	1581281	MADEP VPH	1581281
92506486002	0-B	MADEPV	1581281	MADEP VPH	1581281
92506486003	0-E	MADEPV	1581281	MADEP VPH	1581281
92506486004	25-W	MADEPV	1581281	MADEP VPH	1581281
92506486005	25-B	MADEPV	1581281	MADEP VPH	1581281
92506486006	25-E	MADEPV	1581671	MADEP VPH	1581671
92506486007	50-W	MADEPV	1581671	MADEP VPH	1581671
92506486008	50-B	MADEPV	1581671	MADEP VPH	1581671
92506486009	50-E	MADEPV	1584348	MADEP VPH	1584348
92506486010	75-W	MADEPV	1581671	MADEP VPH	1581671
92506486010	75-W	MADEPV	1584348	MADEP VPH	1584348
92506486011	75-B	MADEPV	1584348	MADEP VPH	1584348
92506486012	75-E	MADEPV	1581671	MADEP VPH	1581671
92506486012	75-E	MADEPV	1584348	MADEP VPH	1584348
92506486013	100-W	MADEPV	1581671	MADEP VPH	1581671
92506486013	100-W	MADEPV	1584348	MADEP VPH	1584348
92506486014	100-B	MADEPV	1582430	MADEP VPH	1582430
92506486015	100-E	MADEPV	1582430	MADEP VPH	1582430
92506486016	125-W	MADEPV	1582430	MADEP VPH	1582430
92506486017	125-B	MADEPV	1582430	MADEP VPH	1582430
92506486018	125-E	MADEPV	1582430	MADEP VPH	1582430
92506486019	150-E	MADEPV	1582430	MADEP VPH	1582430
92506486020	175-E	MADEPV	1582430	MADEP VPH	1582430
92506486020	175-E	MADEPV	1584209	MADEP VPH	1584209
92506486021	150-W	MADEPV	1582430	MADEP VPH	1582430
92506486022	150-B	MADEPV	1582430	MADEP VPH	1582430
92506486023	175-W	MADEPV	1582430	MADEP VPH	1582430
92506486023	175-W	MADEPV	1584209	MADEP VPH	1584209
92506486024	175-B	MADEPV	1582430	MADEP VPH	1582430
92506486024	175-B	MADEPV	1584209	MADEP VPH	1584209
92506486001	0-W	5035A	1581174	EPA 8260D	1581174
92506486002	0-B	5035A	1581174	EPA 8260D	1581174
92506486003	0-E	5035A	1581174	EPA 8260D	1581174
92506486004	25-W	5035A	1581174	EPA 8260D	1581174
92506486005	25-B	5035A	1581174	EPA 8260D	1581174
92506486006	25-E	5035A	1582010	EPA 8260D	1582010
92506486007	50-W	5035A	1582010	EPA 8260D	1582010
92506486007	50-W	5035A	1582486	EPA 8260D	1582486
92506486008	50-B	5035A	1582010	EPA 8260D	1582010
92506486009	50-E	5035A	1582010	EPA 8260D	1582010

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448

Pace Project No.: 92506486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506486009	50-E	5035A	1582486	EPA 8260D	1582486
92506486010	75-W	5035A	1582010	EPA 8260D	1582010
92506486010	75-W	5035A	1582486	EPA 8260D	1582486
92506486011	75-B	5035A	1582010	EPA 8260D	1582010
92506486012	75-E	5035A	1582010	EPA 8260D	1582010
92506486013	100-W	5035A	1582010	EPA 8260D	1582010
92506486014	100-B	5035A	1582010	EPA 8260D	1582010
92506486015	100-E	5035A	1582010	EPA 8260D	1582010
92506486016	125-W	5035A	1582010	EPA 8260D	1582010
92506486017	125-B	5035A	1582010	EPA 8260D	1582010
92506486018	125-E	5035A	1582010	EPA 8260D	1582010
92506486019	150-E	5035A	1582010	EPA 8260D	1582010
92506486020	175-E	5035A	1582010	EPA 8260D	1582010
92506486021	150-W	5035A	1582010	EPA 8260D	1582010
92506486022	150-B	5035A	1582010	EPA 8260D	1582010
92506486023	175-W	5035A	1582010	EPA 8260D	1582010
92506486023	175-W	5035A	1582486	EPA 8260D	1582486
92506486024	175-B	5035A	1582010	EPA 8260D	1582010
92506486024	175-B	5035A	1582486	EPA 8260D	1582486
92506486001	0-W	SM 2540 G	1581972	SM 2540G	1581972
92506486002	0-B	SM 2540 G	1581972	SM 2540G	1581972
92506486003	0-E	SM 2540 G	1581972	SM 2540G	1581972
92506486004	25-W	SM 2540 G	1581972	SM 2540G	1581972
92506486005	25-B	SM 2540 G	1581972	SM 2540G	1581972
92506486006	25-E	SM 2540 G	1582961	SM 2540G	1582961
92506486007	50-W	SM 2540 G	1582961	SM 2540G	1582961
92506486008	50-B	SM 2540 G	1582961	SM 2540G	1582961
92506486009	50-E	SM 2540 G	1582961	SM 2540G	1582961
92506486010	75-W	SM 2540 G	1582961	SM 2540G	1582961
92506486011	75-B	SM 2540 G	1582961	SM 2540G	1582961
92506486012	75-E	SM 2540 G	1582979	SM 2540G	1582979
92506486013	100-W	SM 2540 G	1582979	SM 2540G	1582979
92506486014	100-B	SM 2540 G	1582979	SM 2540G	1582979
92506486015	100-E	SM 2540 G	1582979	SM 2540G	1582979
92506486016	125-W	SM 2540 G	1582979	SM 2540G	1582979
92506486017	125-B	SM 2540 G	1582979	SM 2540G	1582979
92506486018	125-E	SM 2540 G	1582979	SM 2540G	1582979
92506486019	150-E	SM 2540 G	1582979	SM 2540G	1582979
92506486020	175-E	SM 2540 G	1582979	SM 2540G	1582979
92506486021	150-W	SM 2540 G	1582979	SM 2540G	1582979
92506486022	150-B	SM 2540 G	1582980	SM 2540G	1582980
92506486023	175-W	SM 2540 G	1582980	SM 2540G	1582980
92506486024	175-B	SM 2540 G	1582980	SM 2540G	1582980

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY Analytical Request Document**

LAB USE ONLY - **WO# : 92506486**

ALI **92506486**

Container Prese. **6 6**

Page 77 of 79

Pace Analytical<sup>®</sup>  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies LLC Billing Information:

Address:

Report To: Andrew Street Email To: Andrew Street

Copy To: Matt Gorman Site Collection Info/Address:

Customer Project Name/Number: 2020-11-2448 State: 1 County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [x] ET

Phone: Site/Facility ID #: Compliance Monitoring? [ ] Yes [x] No

Email: AStreet@apex.com

Collected By (print): Rick McBride Purchase Order #: DW PWS ID #: Quote #: DW Location Code:

Collected By (signature): [Signature] Turnaround Date Required: Immediately Packed on Ice: [x] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold: Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
0-W	SL	Grab	11/17/20	1055			5	1
0-B	SL			1110			5	1
0-E	SL			1125			5	1
25-W	SL			1440			5	1
25-B	SL			1455			5	1
25-E	SL			1505			5	1
50-W	SL			1520			5	1
50-B	SL			1530			5	1
50-E	SL			1650			5	1

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VOA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments:

92506486

001

002

003

004

005

006

007

008

009

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: Other Lab Tracking #: 2560831

Radchem sample(s) screened (<500 cpm): Y N NA Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 22106

Cooler 1 Temp Upon Receipt: 1.7 °C

Cooler 1 Therm Corr. Factor: 0 °C

Cooler 1 Corrected Temp: 1.7 °C

Comments:

Relinquished by/Company: (Signature) <u>[Signature]</u>	Date/Time: <u>11/17/20/1240</u>	Received by/Company: (Signature) <u>[Signature]</u>	Date/Time: <u>11/17/20/1240</u>
Relinquished by/Company: (Signature) <u>[Signature]</u>	Date/Time: <u>11/17/20/129</u>	Received by/Company: (Signature) <u>[Signature]</u>	Date/Time: <u>11/17/20/1325</u>
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #: \_\_\_\_\_

Acctnum: \_\_\_\_\_

Template: \_\_\_\_\_

Prelogin: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / 0 Page: \_\_\_\_\_ of: \_\_\_\_\_

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Computers LLC Billing Information:

Report To: Andrew Street Email To: Andrew Street  
 Copy To: Matt German Site Collection Info/Address:

Customer Project Name/Number: 2020-L1-2448 State: / County/City: / Time Zone Collected: PT MT CT ET

Phone: Asheville Computers Site/Facility/ID #: / Compliance Monitoring?  Yes  No

Collected By (print): Paul McBride Purchase Order #: / DW PWS ID #: / DW Location Code: /

Collected By (signature): Paul McBride Turnaround Date Required: / Immediately Packed on Ice:  Yes  No

Sample Disposal: / Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day  Hold: / Field Filtered (if applicable):  Yes  No Analysis: /

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
75-W	SL	Grab	1310					3
75-B			1319					3
75-E			1323					3
100-W			1412					3
100-B			1351					3
100-E			1330					3
125-W			1430					3
125-B			1421					3
125-E			1340					3

Customer Remarks / Special Conditions / Possible Hazards: Other

Type of Ice Used: Med Blue Dry None Other

Packing Material Used: Other

Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) Paul McBride Date/Time: 11/20/2020 Received by/Company: (Signature) [Signature] Date/Time: 11/20/2020

Relinquished by/Company: (Signature) [Signature] Date/Time: 11/20/2020 Received by/Company: (Signature) [Signature] Date/Time: 11/20/2020

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MITL Log-In Number Here

MITL Log-In Number Here

Container Preservative Type \*\*

Lab Project Manager:

ALL SHADED AREAS are for LAB USE ONLY

Analyses

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line: 9260

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signatures Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VOA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments:

9260

9260 01 010

9260 02 011

9260 03 012

9260 04 013

9260 05 014

9260 06 015

9260 07 016

9260 08 017

9260 09 018

SHORT HOLDS PRESENT (<72 hours): Y N NA

Lab Tracking #: 2560830

Samples received via: FEDEX UPS Client Courier Page Courier

Date/Time: 11/20/2020 Table #: /

Date/Time: 11/20/2020 Actinum: /

Date/Time: 11/20/2020 Template: /

Date/Time: 11/20/2020 Prelogin: /

Date/Time: 11/20/2020 PM: /

Date/Time: 11/20/2020 PB: /

Temp Blank Received: Y N NA

HCL MEQH TSP Other NA

Non Conformance(s): NO Page: / of: /

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MITL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Apex Laboratories LLC Billing Information: \_\_\_\_\_

Address: Apex Laboratories LLC Email To: A Street Offices.com

Report To: Andrew Street Site Collection Info/Address: \_\_\_\_\_

Copy To: Matt Corwin State: VA County/City: \_\_\_\_\_ Time Zone Collected: ET

Customer Project Name/Number: 2020-61-2448 Site/Facility ID #: \_\_\_\_\_ Compliance Monitoring?  Yes  No

Phone: A Street Offices.com Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_

Collected By (Print): Rob McBride Quote #: \_\_\_\_\_ Turnaround Date Required: \_\_\_\_\_

Collected By (Signature): Rob McBride Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Sample Disposal:  Dispose as appropriate  Return  Archive: \_\_\_\_\_ Field Filtered (if applicable):  Yes  No

Hold: \_\_\_\_\_ Analysis: \_\_\_\_\_

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
150-E	SL	Grab	11/17/20	1640				3
175-E	SL		11/17/20	1650				3
150-W	SL		11/17/20	1540				3
150-B	SL		11/17/20	1600				3
175-W	SL		11/17/20	1615				3
175-B	SL		11/17/20	1620				3

VOL 8260  
MADEP UPH

Type of Ice Used:	Other	Blue	Dry	None
Other				

Radchem sample(s) screened (<500 cpm):	Y	N	NA

Lab Tracking #:	SHOULDS PRESENT (<72 hours):	Y	N	N/A
2560813				

Samples received via:	Client	Courier	Pace Courier
FEDEX UPS			

Container Preservative Type **	Lab Project Manager:
66	

Lab Profile/Line: \_\_\_\_\_  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact Y  N   
 Custody Signatures Present Y  N   
 Collector Signatures Present Y  N   
 Bottles Intact Y  N   
 Correct Bottles Y  N   
 Sufficient Volume Y  N   
 Samples Received on Ice Y  N   
 VOA - Headspace Acceptable Y  N   
 USDA Regulated Soils Y  N   
 Samples in Holding Time Y  N   
 Residual Chlorine Present Y  N   
 Cl Strips: \_\_\_\_\_ Y  N   
 sample pH Acceptable Y  N   
 pH Strips: \_\_\_\_\_ Y  N   
 Sulfide Present Y  N   
 Lead Acetate Strips: \_\_\_\_\_ Y  N   
 LAB USE ONLY:  
 Lab Sample # / Comments:  
 92566486

Lab Sample Temperature Info:  
 Temp Blank Received: \_\_\_\_\_  
 Therm ID#: 92706 N  
 Cooler 1 Temp Upon Receipt: 11.16/27  
 Cooler 1 Therm Corr. Factor: 0.5  
 Cooler 1 Corrected Temp: 11.15/27  
 Comments: \_\_\_\_\_

Relinquished by Company: (Signature) \_\_\_\_\_ Date/Time: 11/17/20 109  
 Relinquished by Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by Company: (Signature) \_\_\_\_\_ Date/Time: 11-17-20 1240  
 Received by Company: (Signature) \_\_\_\_\_ Date/Time: 11-17-20 1328

December 02, 2020

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-LI-2448  
Pace Project No.: 92506678

Dear Andrew Street:

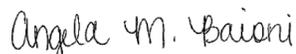
Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Emily Little, Apex Companies  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Alex Testoff, Montrose-EPS  
Michael Verdon, Colonial Pipeline Company

JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-LI-2448  
Pace Project No.: 92506678

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2020-LI-2448

Pace Project No.: 92506678

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92506678001	200-W	Solid	11/17/20 09:25	11/18/20 09:17
92506678002	200-B	Solid	11/17/20 09:31	11/18/20 09:17
92506678003	200-E	Solid	11/17/20 13:43	11/18/20 09:17
92506678004	225-W	Solid	11/17/20 09:37	11/18/20 09:17
92506678005	225-B	Solid	11/17/20 10:01	11/18/20 09:17
92506678006	225-E	Solid	11/17/20 13:48	11/18/20 09:17
92506678007	250-W	Solid	11/17/20 10:13	11/18/20 09:17
92506678008	250-B	Solid	11/17/20 10:17	11/18/20 09:17
92506678009	250-E	Solid	11/17/20 13:53	11/18/20 09:17
92506678010	275-W	Solid	11/17/20 10:26	11/18/20 09:17
92506678011	275-B	Solid	11/17/20 10:31	11/18/20 09:17
92506678012	275-E	Solid	11/17/20 13:59	11/18/20 09:17
92506678013	300-W	Solid	11/17/20 10:40	11/18/20 09:17
92506678014	300-B	Solid	11/17/20 10:43	11/18/20 09:17
92506678015	300-E	Solid	11/17/20 14:04	11/18/20 09:17
92506678016	325-W	Solid	11/17/20 11:07	11/18/20 09:17
92506678017	325-B	Solid	11/17/20 11:11	11/18/20 09:17
92506678018	325-E	Solid	11/17/20 14:10	11/18/20 09:17
92506678019	350-W	Solid	11/17/20 11:14	11/18/20 09:17
92506678020	350-B	Solid	11/17/20 11:15	11/18/20 09:17
92506678021	350-E	Solid	11/17/20 14:49	11/18/20 09:17
92506678022	375-W	Solid	11/17/20 11:22	11/18/20 09:17
92506678023	375-B	Solid	11/17/20 11:20	11/18/20 09:17
92506678024	375-E	Solid	11/17/20 14:50	11/18/20 09:17
92506678025	North Wall	Solid	11/17/20 15:05	11/18/20 09:17
92506678026	South Wall	Solid	11/17/20 15:00	11/18/20 09:17

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-LI-2448  
Pace Project No.: 92506678

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506678001	200-W	MADEP VPH	ACG, BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678002	200-B	MADEP VPH	ACG, BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678003	200-E	MADEP VPH	BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678004	225-W	MADEP VPH	BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678005	225-B	MADEP VPH	ACG	6	PAN
		EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678006	225-E	MADEP VPH	ACG, BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678007	250-W	MADEP VPH	BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678008	250-B	MADEP VPH	BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678009	250-E	MADEP VPH	BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678010	275-W	MADEP VPH	ACG, BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678011	275-B	MADEP VPH	ACG	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	JAV	1	PAN
92506678012	275-E	MADEP VPH	ACG	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	KDW	1	PAN
92506678013	300-W	MADEP VPH	ACG	6	PAN

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-LI-2448  
Pace Project No.: 92506678

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506678014	300-B	EPA 8260D	ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92506678015	300-E	EPA 8260D	ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	ADM, BMB	6	PAN
92506678016	325-W	EPA 8260D	ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92506678017	325-B	EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92506678018	325-E	EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92506678019	350-W	EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92506678020	350-B	EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92506678021	350-E	EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92506678022	375-W	EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92506678023	375-B	EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92506678024	375-E	EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92506678025	North Wall	EPA 8260D	ACG	68	PAN
		MADEP VPH	BMB	6	PAN

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-LI-2448  
Pace Project No.: 92506678

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506678026	South Wall	SM 2540G	KDW	1	PAN
		MADEP VPH	ADM	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN

PAN = Pace National - Mt. Juliet

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 200-W**      **Lab ID: 92506678001**      Collected: 11/17/20 09:25      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>1930</b>	mg/kg	28.8	9.59	4	11/17/20 09:25	11/23/20 21:57		
Aliphatic (C09-C12)	<b>3820</b>	mg/kg	28.8	9.59	4	11/17/20 09:25	11/23/20 21:57		
Aromatic (C09-C10),Unadjusted	<b>1150</b>	mg/kg	144	47.9	20	11/17/20 09:25	11/27/20 11:31	TPHC9C10A	
Total VPH	<b>5750</b>	mg/kg	28.8	9.59	4	11/17/20 09:25	11/23/20 21:57	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	92.3	%	70.0-130		4	11/17/20 09:25	11/23/20 21:57	615-59-8FID	
2,5-Dibromotoluene (FID)	86.3	%	70.0-130		20	11/17/20 09:25	11/27/20 11:31	615-59-8FID	
2,5-Dibromotoluene (PID)	88.8	%	70.0-130		4	11/17/20 09:25	11/23/20 21:57	615-59-8PID	
2,5-Dibromotoluene (PID)	85.7	%	70.0-130		20	11/17/20 09:25	11/27/20 11:31	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	< <b>1.47</b>	mg/kg	1.47	1.07	20	11/17/20 09:25	11/23/20 17:20	67-64-1	
Acrylonitrile	< <b>0.367</b>	mg/kg	0.367	0.106	20	11/17/20 09:25	11/23/20 17:20	107-13-1	
Benzene	<b>10.1</b>	mg/kg	0.0294	0.0137	20	11/17/20 09:25	11/23/20 17:20	71-43-2	
Bromobenzene	< <b>0.367</b>	mg/kg	0.367	0.0264	20	11/17/20 09:25	11/23/20 17:20	108-86-1	
Bromodichloromethane	< <b>0.0734</b>	mg/kg	0.0734	0.0213	20	11/17/20 09:25	11/23/20 17:20	75-27-4	
Bromoform	< <b>0.734</b>	mg/kg	0.734	0.0343	20	11/17/20 09:25	11/23/20 17:20	75-25-2	
Bromomethane	< <b>0.367</b>	mg/kg	0.367	0.0578	20	11/17/20 09:25	11/23/20 17:20	74-83-9	
n-Butylbenzene	<b>19.8</b>	mg/kg	0.367	0.154	20	11/17/20 09:25	11/23/20 17:20	104-51-8	
sec-Butylbenzene	<b>6.83</b>	mg/kg	0.367	0.0845	20	11/17/20 09:25	11/23/20 17:20	135-98-8	
tert-Butylbenzene	< <b>0.147</b>	mg/kg	0.147	0.0572	20	11/17/20 09:25	11/23/20 17:20	98-06-6	
Carbon tetrachloride	< <b>0.147</b>	mg/kg	0.147	0.0264	20	11/17/20 09:25	11/23/20 17:20	56-23-5	
Chlorobenzene	<b>0.308</b>	mg/kg	0.0734	0.00616	20	11/17/20 09:25	11/23/20 17:20	108-90-7	
Dibromochloromethane	< <b>0.0734</b>	mg/kg	0.0734	0.0179	20	11/17/20 09:25	11/23/20 17:20	124-48-1	
Chloroethane	< <b>0.147</b>	mg/kg	0.147	0.0499	20	11/17/20 09:25	11/23/20 17:20	75-00-3	
Chloroform	< <b>0.0734</b>	mg/kg	0.0734	0.0302	20	11/17/20 09:25	11/23/20 17:20	67-66-3	
Chloromethane	< <b>0.367</b>	mg/kg	0.367	0.128	20	11/17/20 09:25	11/23/20 17:20	74-87-3	
2-Chlorotoluene	< <b>0.0734</b>	mg/kg	0.0734	0.0254	20	11/17/20 09:25	11/23/20 17:20	95-49-8	
4-Chlorotoluene	< <b>0.147</b>	mg/kg	0.147	0.0132	20	11/17/20 09:25	11/23/20 17:20	106-43-4	
1,2-Dibromo-3-chloropropane	< <b>0.734</b>	mg/kg	0.734	0.114	20	11/17/20 09:25	11/23/20 17:20	96-12-8	
1,2-Dibromoethane (EDB)	< <b>0.0734</b>	mg/kg	0.0734	0.0191	20	11/17/20 09:25	11/23/20 17:20	106-93-4	
Dibromomethane	< <b>0.147</b>	mg/kg	0.147	0.0220	20	11/17/20 09:25	11/23/20 17:20	74-95-3	
1,2-Dichlorobenzene	< <b>0.147</b>	mg/kg	0.147	0.0125	20	11/17/20 09:25	11/23/20 17:20	95-50-1	
1,3-Dichlorobenzene	< <b>0.147</b>	mg/kg	0.147	0.0176	20	11/17/20 09:25	11/23/20 17:20	541-73-1	
1,4-Dichlorobenzene	< <b>0.147</b>	mg/kg	0.147	0.0205	20	11/17/20 09:25	11/23/20 17:20	106-46-7	
Dichlorodifluoromethane	< <b>0.0734</b>	mg/kg	0.0734	0.0473	20	11/17/20 09:25	11/23/20 17:20	75-71-8	
1,1-Dichloroethane	< <b>0.0734</b>	mg/kg	0.0734	0.0144	20	11/17/20 09:25	11/23/20 17:20	75-34-3	
1,2-Dichloroethane	< <b>0.0734</b>	mg/kg	0.0734	0.0191	20	11/17/20 09:25	11/23/20 17:20	107-06-2	
1,1-Dichloroethene	< <b>0.0734</b>	mg/kg	0.0734	0.0178	20	11/17/20 09:25	11/23/20 17:20	75-35-4	
cis-1,2-Dichloroethene	< <b>0.0734</b>	mg/kg	0.0734	0.0216	20	11/17/20 09:25	11/23/20 17:20	156-59-2	
trans-1,2-Dichloroethene	< <b>0.147</b>	mg/kg	0.147	0.0305	20	11/17/20 09:25	11/23/20 17:20	156-60-5	
1,2-Dichloropropane	< <b>0.147</b>	mg/kg	0.147	0.0417	20	11/17/20 09:25	11/23/20 17:20	78-87-5	
1,1-Dichloropropene	< <b>0.0734</b>	mg/kg	0.0734	0.0238	20	11/17/20 09:25	11/23/20 17:20	563-58-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 200-W**      **Lab ID: 92506678001**      Collected: 11/17/20 09:25      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.147	mg/kg	0.147	0.0147	20	11/17/20 09:25	11/23/20 17:20	142-28-9	
cis-1,3-Dichloropropene	<0.0734	mg/kg	0.0734	0.0222	20	11/17/20 09:25	11/23/20 17:20	10061-01-5	
trans-1,3-Dichloropropene	<0.147	mg/kg	0.147	0.0335	20	11/17/20 09:25	11/23/20 17:20	10061-02-6	
2,2-Dichloropropane	<0.0734	mg/kg	0.0734	0.0405	20	11/17/20 09:25	11/23/20 17:20	594-20-7	
Diisopropyl ether	3.35	mg/kg	0.0294	0.0120	20	11/17/20 09:25	11/23/20 17:20	108-20-3	
Ethylbenzene	153	mg/kg	1.47	0.433	400	11/17/20 09:25	11/27/20 12:52	100-41-4	
Hexachloro-1,3-butadiene	<0.734	mg/kg	0.734	0.176	20	11/17/20 09:25	11/23/20 17:20	87-68-3	
Isopropylbenzene (Cumene)	14.7	mg/kg	0.0734	0.0125	20	11/17/20 09:25	11/23/20 17:20	98-82-8	
p-Isopropyltoluene	3.13	mg/kg	0.147	0.0749	20	11/17/20 09:25	11/23/20 17:20	99-87-6	
2-Butanone (MEK)	<2.94	mg/kg	2.94	1.86	20	11/17/20 09:25	11/23/20 17:20	78-93-3	
Methylene Chloride	<0.734	mg/kg	0.734	0.195	20	11/17/20 09:25	11/23/20 17:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.734	mg/kg	0.734	0.0669	20	11/17/20 09:25	11/23/20 17:20	108-10-1	
Methyl-tert-butyl ether	0.280	mg/kg	0.0294	0.0103	20	11/17/20 09:25	11/23/20 17:20	1634-04-4	
Naphthalene	43.7	mg/kg	0.367	0.143	20	11/17/20 09:25	11/23/20 17:20	91-20-3	C3
n-Propylbenzene	68.5	mg/kg	2.94	0.558	400	11/17/20 09:25	11/27/20 12:52	103-65-1	
Styrene	<0.367	mg/kg	0.367	0.00672	20	11/17/20 09:25	11/23/20 17:20	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0734	mg/kg	0.0734	0.0279	20	11/17/20 09:25	11/23/20 17:20	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0734	mg/kg	0.0734	0.0204	20	11/17/20 09:25	11/23/20 17:20	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0734	mg/kg	0.0734	0.0222	20	11/17/20 09:25	11/23/20 17:20	76-13-1	
Tetrachloroethene	0.0945	mg/kg	0.0734	0.0263	20	11/17/20 09:25	11/23/20 17:20	127-18-4	
Toluene	201	mg/kg	2.94	0.763	400	11/17/20 09:25	11/27/20 12:52	108-88-3	
1,2,3-Trichlorobenzene	<0.367	mg/kg	0.367	0.216	20	11/17/20 09:25	11/23/20 17:20	87-61-6	C4
1,2,4-Trichlorobenzene	<0.367	mg/kg	0.367	0.129	20	11/17/20 09:25	11/23/20 17:20	120-82-1	
1,1,1-Trichloroethane	<0.0734	mg/kg	0.0734	0.0272	20	11/17/20 09:25	11/23/20 17:20	71-55-6	
1,1,2-Trichloroethane	<0.0734	mg/kg	0.0734	0.0175	20	11/17/20 09:25	11/23/20 17:20	79-00-5	
Trichloroethene	<0.0294	mg/kg	0.0294	0.0172	20	11/17/20 09:25	11/23/20 17:20	79-01-6	
Trichlorofluoromethane	<0.0734	mg/kg	0.0734	0.0242	20	11/17/20 09:25	11/23/20 17:20	75-69-4	
1,2,3-Trichloropropane	<0.367	mg/kg	0.367	0.0476	20	11/17/20 09:25	11/23/20 17:20	96-18-4	
1,2,4-Trimethylbenzene	348	mg/kg	2.94	0.928	400	11/17/20 09:25	11/27/20 12:52	95-63-6	
1,2,3-Trimethylbenzene	96.4	mg/kg	2.94	0.928	400	11/17/20 09:25	11/27/20 12:52	526-73-8	
1,3,5-Trimethylbenzene	105	mg/kg	2.94	1.17	400	11/17/20 09:25	11/27/20 12:52	108-67-8	
Vinyl chloride	<0.0734	mg/kg	0.0734	0.0341	20	11/17/20 09:25	11/23/20 17:20	75-01-4	
Xylene (Total)	997	mg/kg	3.82	0.517	400	11/17/20 09:25	11/27/20 12:52	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	117	%	75.0-131		20	11/17/20 09:25	11/23/20 17:20	2037-26-5	
Toluene-d8 (S)	105	%	75.0-131		400	11/17/20 09:25	11/27/20 12:52	2037-26-5	
4-Bromofluorobenzene (S)	106	%	67.0-138		20	11/17/20 09:25	11/23/20 17:20	460-00-4	
4-Bromofluorobenzene (S)	93.6	%	67.0-138		400	11/17/20 09:25	11/27/20 12:52	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130		20	11/17/20 09:25	11/23/20 17:20	17060-07-0	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130		400	11/17/20 09:25	11/27/20 12:52	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids      **82.5**      %      1      11/25/20 04:06      11/25/20 04:13

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506678

**Sample: 200-B**      **Lab ID: 92506678002**      Collected: 11/17/20 09:31      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH      Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	26.1	mg/kg	8.70	2.91	1	11/17/20 09:31	11/23/20 22:30		
Aliphatic (C09-C12)	16.0	mg/kg	8.70	2.91	1	11/17/20 09:31	11/23/20 22:30		
Aromatic (C09-C10), Unadjusted	3.43J	mg/kg	8.70	2.91	1	11/17/20 09:31	11/27/20 09:18	TPHC9C10A	J
Total VPH	42.1	mg/kg	8.70	2.91	1	11/17/20 09:31	11/23/20 22:30	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	85.4	%	70.0-130		1	11/17/20 09:31	11/23/20 22:30	615-59-8FID	
2,5-Dibromotoluene (FID)	86.4	%	70.0-130		1	11/17/20 09:31	11/27/20 09:18	615-59-8FID	
2,5-Dibromotoluene (PID)	81.6	%	70.0-130		1	11/17/20 09:31	11/23/20 22:30	615-59-8PID	
2,5-Dibromotoluene (PID)	86.6	%	70.0-130		1	11/17/20 09:31	11/27/20 09:18	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D      Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.0888	mg/kg	0.0888	0.0648	1	11/17/20 09:31	11/23/20 15:26	67-64-1	
Acrylonitrile	<0.0222	mg/kg	0.0222	0.00641	1	11/17/20 09:31	11/23/20 15:26	107-13-1	
Benzene	0.527	mg/kg	0.00178	0.000829	1	11/17/20 09:31	11/23/20 15:26	71-43-2	
Bromobenzene	<0.0222	mg/kg	0.0222	0.00160	1	11/17/20 09:31	11/23/20 15:26	108-86-1	
Bromodichloromethane	<0.00444	mg/kg	0.00444	0.00129	1	11/17/20 09:31	11/23/20 15:26	75-27-4	
Bromoform	<0.0444	mg/kg	0.0444	0.00208	1	11/17/20 09:31	11/23/20 15:26	75-25-2	
Bromomethane	<0.0222	mg/kg	0.0222	0.00350	1	11/17/20 09:31	11/23/20 15:26	74-83-9	
n-Butylbenzene	<0.0222	mg/kg	0.0222	0.00932	1	11/17/20 09:31	11/23/20 15:26	104-51-8	
sec-Butylbenzene	0.0121J	mg/kg	0.0222	0.00511	1	11/17/20 09:31	11/23/20 15:26	135-98-8	J
tert-Butylbenzene	<0.00888	mg/kg	0.00888	0.00346	1	11/17/20 09:31	11/23/20 15:26	98-06-6	
Carbon tetrachloride	<0.00888	mg/kg	0.00888	0.00159	1	11/17/20 09:31	11/23/20 15:26	56-23-5	
Chlorobenzene	<0.00444	mg/kg	0.00444	0.000373	1	11/17/20 09:31	11/23/20 15:26	108-90-7	
Dibromochloromethane	<0.00444	mg/kg	0.00444	0.00109	1	11/17/20 09:31	11/23/20 15:26	124-48-1	
Chloroethane	<0.00888	mg/kg	0.00888	0.00302	1	11/17/20 09:31	11/23/20 15:26	75-00-3	
Chloroform	<0.00444	mg/kg	0.00444	0.00183	1	11/17/20 09:31	11/23/20 15:26	67-66-3	
Chloromethane	<0.0222	mg/kg	0.0222	0.00772	1	11/17/20 09:31	11/23/20 15:26	74-87-3	
2-Chlorotoluene	<0.00444	mg/kg	0.00444	0.00154	1	11/17/20 09:31	11/23/20 15:26	95-49-8	
4-Chlorotoluene	<0.00888	mg/kg	0.00888	0.000799	1	11/17/20 09:31	11/23/20 15:26	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0444	mg/kg	0.0444	0.00692	1	11/17/20 09:31	11/23/20 15:26	96-12-8	
1,2-Dibromoethane (EDB)	<0.00444	mg/kg	0.00444	0.00115	1	11/17/20 09:31	11/23/20 15:26	106-93-4	
Dibromomethane	<0.00888	mg/kg	0.00888	0.00133	1	11/17/20 09:31	11/23/20 15:26	74-95-3	
1,2-Dichlorobenzene	<0.00888	mg/kg	0.00888	0.000754	1	11/17/20 09:31	11/23/20 15:26	95-50-1	
1,3-Dichlorobenzene	<0.00888	mg/kg	0.00888	0.00107	1	11/17/20 09:31	11/23/20 15:26	541-73-1	
1,4-Dichlorobenzene	<0.00888	mg/kg	0.00888	0.00124	1	11/17/20 09:31	11/23/20 15:26	106-46-7	
Dichlorodifluoromethane	<0.00444	mg/kg	0.00444	0.00286	1	11/17/20 09:31	11/23/20 15:26	75-71-8	
1,1-Dichloroethane	<0.00444	mg/kg	0.00444	0.000872	1	11/17/20 09:31	11/23/20 15:26	75-34-3	
1,2-Dichloroethane	<0.00444	mg/kg	0.00444	0.00115	1	11/17/20 09:31	11/23/20 15:26	107-06-2	
1,1-Dichloroethene	<0.00444	mg/kg	0.00444	0.00108	1	11/17/20 09:31	11/23/20 15:26	75-35-4	
cis-1,2-Dichloroethene	<0.00444	mg/kg	0.00444	0.00130	1	11/17/20 09:31	11/23/20 15:26	156-59-2	
trans-1,2-Dichloroethene	<0.00888	mg/kg	0.00888	0.00185	1	11/17/20 09:31	11/23/20 15:26	156-60-5	
1,2-Dichloropropane	<0.00888	mg/kg	0.00888	0.00252	1	11/17/20 09:31	11/23/20 15:26	78-87-5	
1,1-Dichloropropene	<0.00444	mg/kg	0.00444	0.00144	1	11/17/20 09:31	11/23/20 15:26	563-58-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 200-B** Lab ID: **92506678002** Collected: 11/17/20 09:31 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.00888	mg/kg	0.00888	0.000889	1	11/17/20 09:31	11/23/20 15:26	142-28-9	
cis-1,3-Dichloropropene	<0.00444	mg/kg	0.00444	0.00134	1	11/17/20 09:31	11/23/20 15:26	10061-01-5	
trans-1,3-Dichloropropene	<0.00888	mg/kg	0.00888	0.00202	1	11/17/20 09:31	11/23/20 15:26	10061-02-6	
2,2-Dichloropropane	<0.00444	mg/kg	0.00444	0.00245	1	11/17/20 09:31	11/23/20 15:26	594-20-7	
Diisopropyl ether	2.25	mg/kg	0.00178	0.000728	1	11/17/20 09:31	11/23/20 15:26	108-20-3	
Ethylbenzene	0.0296	mg/kg	0.00444	0.00131	1	11/17/20 09:31	11/23/20 15:26	100-41-4	
Hexachloro-1,3-butadiene	<0.0444	mg/kg	0.0444	0.0107	1	11/17/20 09:31	11/23/20 15:26	87-68-3	
Isopropylbenzene (Cumene)	0.00408J	mg/kg	0.00444	0.000754	1	11/17/20 09:31	11/23/20 15:26	98-82-8	J
p-Isopropyltoluene	0.0277	mg/kg	0.00888	0.00453	1	11/17/20 09:31	11/23/20 15:26	99-87-6	
2-Butanone (MEK)	<0.178	mg/kg	0.178	0.113	1	11/17/20 09:31	11/23/20 15:26	78-93-3	
Methylene Chloride	<0.0444	mg/kg	0.0444	0.0118	1	11/17/20 09:31	11/23/20 15:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0444	mg/kg	0.0444	0.00405	1	11/17/20 09:31	11/23/20 15:26	108-10-1	
Methyl-tert-butyl ether	0.233	mg/kg	0.00178	0.000621	1	11/17/20 09:31	11/23/20 15:26	1634-04-4	
Naphthalene	0.0827	mg/kg	0.0222	0.00866	1	11/17/20 09:31	11/23/20 15:26	91-20-3	C3
n-Propylbenzene	0.0101	mg/kg	0.00888	0.00169	1	11/17/20 09:31	11/23/20 15:26	103-65-1	
Styrene	<0.0222	mg/kg	0.0222	0.000406	1	11/17/20 09:31	11/23/20 15:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00444	mg/kg	0.00444	0.00168	1	11/17/20 09:31	11/23/20 15:26	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00444	mg/kg	0.00444	0.00123	1	11/17/20 09:31	11/23/20 15:26	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00444	mg/kg	0.00444	0.00134	1	11/17/20 09:31	11/23/20 15:26	76-13-1	
Tetrachloroethene	<0.00444	mg/kg	0.00444	0.00159	1	11/17/20 09:31	11/23/20 15:26	127-18-4	
Toluene	0.609	mg/kg	0.00888	0.00231	1	11/17/20 09:31	11/23/20 15:26	108-88-3	
1,2,3-Trichlorobenzene	<0.0222	mg/kg	0.0222	0.0130	1	11/17/20 09:31	11/23/20 15:26	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0222	mg/kg	0.0222	0.00781	1	11/17/20 09:31	11/23/20 15:26	120-82-1	
1,1,1-Trichloroethane	<0.00444	mg/kg	0.00444	0.00164	1	11/17/20 09:31	11/23/20 15:26	71-55-6	
1,1,2-Trichloroethane	<0.00444	mg/kg	0.00444	0.00106	1	11/17/20 09:31	11/23/20 15:26	79-00-5	
Trichloroethene	<0.00178	mg/kg	0.00178	0.00104	1	11/17/20 09:31	11/23/20 15:26	79-01-6	
Trichlorofluoromethane	<0.00444	mg/kg	0.00444	0.00147	1	11/17/20 09:31	11/23/20 15:26	75-69-4	
1,2,3-Trichloropropane	<0.0222	mg/kg	0.0222	0.00288	1	11/17/20 09:31	11/23/20 15:26	96-18-4	
1,2,4-Trimethylbenzene	0.904	mg/kg	0.00888	0.00280	1	11/17/20 09:31	11/23/20 15:26	95-63-6	
1,2,3-Trimethylbenzene	0.783	mg/kg	0.00888	0.00280	1	11/17/20 09:31	11/23/20 15:26	526-73-8	
1,3,5-Trimethylbenzene	0.799	mg/kg	0.00888	0.00355	1	11/17/20 09:31	11/23/20 15:26	108-67-8	
Vinyl chloride	<0.00444	mg/kg	0.00444	0.00206	1	11/17/20 09:31	11/23/20 15:26	75-01-4	
Xylene (Total)	2.89	mg/kg	0.0115	0.00156	1	11/17/20 09:31	11/23/20 15:26	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	75.0-131		1	11/17/20 09:31	11/23/20 15:26	2037-26-5	
4-Bromofluorobenzene (S)	92.9	%	67.0-138		1	11/17/20 09:31	11/23/20 15:26	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130		1	11/17/20 09:31	11/23/20 15:26	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	73.1	%			1	11/25/20 05:49	11/25/20 05:57		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 200-E** Lab ID: **92506678003** Collected: 11/17/20 13:43 Received: 11/18/20 09:17 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>MADEPV</b>									
Analytical Method: MADEPV VPH Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>8490</b>	mg/kg	313	104	45.2	11/17/20 13:43	11/27/20 12:03		
Aliphatic (C09-C12)	<b>4310</b>	mg/kg	313	104	45.2	11/17/20 13:43	11/27/20 12:03		
Aromatic (C09-C10), Unadjusted	<b>1480</b>	mg/kg	313	104	45.2	11/17/20 13:43	11/27/20 12:03	TPHC9C10A	
Total VPH	<b>14300</b>	mg/kg	313	104	45.2	11/17/20 13:43	11/27/20 12:03	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	90.9	%	70.0-130		45.2	11/17/20 13:43	11/27/20 12:03	615-59-8FID	
2,5-Dibromotoluene (PID)	90.2	%	70.0-130		45.2	11/17/20 13:43	11/27/20 12:03	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<0.142	mg/kg	1.42	1.04	20.2	11/17/20 13:43	11/23/20 17:39	67-64-1	
Acrylonitrile	<0.356	mg/kg	0.356	0.103	20.2	11/17/20 13:43	11/23/20 17:39	107-13-1	
Benzene	<b>56.2</b>	mg/kg	0.0284	0.0133	20.2	11/17/20 13:43	11/23/20 17:39	71-43-2	
Bromobenzene	<0.356	mg/kg	0.356	0.0256	20.2	11/17/20 13:43	11/23/20 17:39	108-86-1	
Bromodichloromethane	<0.0711	mg/kg	0.0711	0.0205	20.2	11/17/20 13:43	11/23/20 17:39	75-27-4	
Bromoform	<0.711	mg/kg	0.711	0.0332	20.2	11/17/20 13:43	11/23/20 17:39	75-25-2	
Bromomethane	<0.356	mg/kg	0.356	0.0560	20.2	11/17/20 13:43	11/23/20 17:39	74-83-9	
n-Butylbenzene	<b>27.2</b>	mg/kg	0.356	0.149	20.2	11/17/20 13:43	11/23/20 17:39	104-51-8	
sec-Butylbenzene	<b>8.25</b>	mg/kg	0.356	0.0819	20.2	11/17/20 13:43	11/23/20 17:39	135-98-8	
tert-Butylbenzene	<0.142	mg/kg	0.142	0.0554	20.2	11/17/20 13:43	11/23/20 17:39	98-06-6	
Carbon tetrachloride	<0.142	mg/kg	0.142	0.0255	20.2	11/17/20 13:43	11/23/20 17:39	56-23-5	
Chlorobenzene	<b>0.353</b>	mg/kg	0.0711	0.00597	20.2	11/17/20 13:43	11/23/20 17:39	108-90-7	
Dibromochloromethane	<0.0711	mg/kg	0.0711	0.0175	20.2	11/17/20 13:43	11/23/20 17:39	124-48-1	
Chloroethane	<0.142	mg/kg	0.142	0.0483	20.2	11/17/20 13:43	11/23/20 17:39	75-00-3	
Chloroform	<0.0711	mg/kg	0.0711	0.0293	20.2	11/17/20 13:43	11/23/20 17:39	67-66-3	
Chloromethane	<0.356	mg/kg	0.356	0.124	20.2	11/17/20 13:43	11/23/20 17:39	74-87-3	
2-Chlorotoluene	<0.0711	mg/kg	0.0711	0.0246	20.2	11/17/20 13:43	11/23/20 17:39	95-49-8	
4-Chlorotoluene	<0.142	mg/kg	0.142	0.0128	20.2	11/17/20 13:43	11/23/20 17:39	106-43-4	
1,2-Dibromo-3-chloropropane	<0.711	mg/kg	0.711	0.111	20.2	11/17/20 13:43	11/23/20 17:39	96-12-8	
1,2-Dibromoethane (EDB)	<0.0711	mg/kg	0.0711	0.0184	20.2	11/17/20 13:43	11/23/20 17:39	106-93-4	
Dibromomethane	<0.142	mg/kg	0.142	0.0214	20.2	11/17/20 13:43	11/23/20 17:39	74-95-3	
1,2-Dichlorobenzene	<0.142	mg/kg	0.142	0.0121	20.2	11/17/20 13:43	11/23/20 17:39	95-50-1	
1,3-Dichlorobenzene	<0.142	mg/kg	0.142	0.0170	20.2	11/17/20 13:43	11/23/20 17:39	541-73-1	
1,4-Dichlorobenzene	<0.142	mg/kg	0.142	0.0198	20.2	11/17/20 13:43	11/23/20 17:39	106-46-7	
Dichlorodifluoromethane	<0.0711	mg/kg	0.0711	0.0457	20.2	11/17/20 13:43	11/23/20 17:39	75-71-8	
1,1-Dichloroethane	<0.0711	mg/kg	0.0711	0.0140	20.2	11/17/20 13:43	11/23/20 17:39	75-34-3	
1,2-Dichloroethane	<0.0711	mg/kg	0.0711	0.0184	20.2	11/17/20 13:43	11/23/20 17:39	107-06-2	
1,1-Dichloroethene	<0.0711	mg/kg	0.0711	0.0172	20.2	11/17/20 13:43	11/23/20 17:39	75-35-4	
cis-1,2-Dichloroethene	<0.0711	mg/kg	0.0711	0.0208	20.2	11/17/20 13:43	11/23/20 17:39	156-59-2	
trans-1,2-Dichloroethene	<0.142	mg/kg	0.142	0.0296	20.2	11/17/20 13:43	11/23/20 17:39	156-60-5	
1,2-Dichloropropane	<0.142	mg/kg	0.142	0.0404	20.2	11/17/20 13:43	11/23/20 17:39	78-87-5	
1,1-Dichloropropene	<0.0711	mg/kg	0.0711	0.0229	20.2	11/17/20 13:43	11/23/20 17:39	563-58-6	
1,3-Dichloropropane	<0.142	mg/kg	0.142	0.0142	20.2	11/17/20 13:43	11/23/20 17:39	142-28-9	
cis-1,3-Dichloropropene	<0.0711	mg/kg	0.0711	0.0215	20.2	11/17/20 13:43	11/23/20 17:39	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 200-E**      **Lab ID: 92506678003**      Collected: 11/17/20 13:43      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.142	mg/kg	0.142	0.0324	20.2	11/17/20 13:43	11/23/20 17:39	10061-02-6	
2,2-Dichloropropane	<0.0711	mg/kg	0.0711	0.0393	20.2	11/17/20 13:43	11/23/20 17:39	594-20-7	
Diisopropyl ether	22.9	mg/kg	0.0284	0.0117	20.2	11/17/20 13:43	11/23/20 17:39	108-20-3	
Ethylbenzene	398	mg/kg	1.42	0.419	404	11/17/20 13:43	11/27/20 13:11	100-41-4	
Hexachloro-1,3-butadiene	<0.711	mg/kg	0.711	0.170	20.2	11/17/20 13:43	11/23/20 17:39	87-68-3	
Isopropylbenzene (Cumene)	19.8	mg/kg	0.0711	0.0121	20.2	11/17/20 13:43	11/23/20 17:39	98-82-8	
p-Isopropyltoluene	4.31	mg/kg	0.142	0.0725	20.2	11/17/20 13:43	11/23/20 17:39	99-87-6	
2-Butanone (MEK)	<2.84	mg/kg	2.84	1.80	20.2	11/17/20 13:43	11/23/20 17:39	78-93-3	
Methylene Chloride	<0.711	mg/kg	0.711	0.189	20.2	11/17/20 13:43	11/23/20 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.711	mg/kg	0.711	0.0649	20.2	11/17/20 13:43	11/23/20 17:39	108-10-1	
Methyl-tert-butyl ether	1.49	mg/kg	0.0284	0.00995	20.2	11/17/20 13:43	11/23/20 17:39	1634-04-4	
Naphthalene	59.5	mg/kg	0.356	0.139	20.2	11/17/20 13:43	11/23/20 17:39	91-20-3	C3
n-Propylbenzene	106	mg/kg	2.84	0.540	404	11/17/20 13:43	11/27/20 13:11	103-65-1	
Styrene	<0.356	mg/kg	0.356	0.00652	20.2	11/17/20 13:43	11/23/20 17:39	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0711	mg/kg	0.0711	0.0269	20.2	11/17/20 13:43	11/23/20 17:39	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0711	mg/kg	0.0711	0.0197	20.2	11/17/20 13:43	11/23/20 17:39	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0711	mg/kg	0.0711	0.0214	20.2	11/17/20 13:43	11/23/20 17:39	76-13-1	
Tetrachloroethene	<0.0711	mg/kg	0.0711	0.0255	20.2	11/17/20 13:43	11/23/20 17:39	127-18-4	
Toluene	877	mg/kg	2.84	0.739	404	11/17/20 13:43	11/27/20 13:11	108-88-3	
1,2,3-Trichlorobenzene	<0.356	mg/kg	0.356	0.208	20.2	11/17/20 13:43	11/23/20 17:39	87-61-6	C4
1,2,4-Trichlorobenzene	<0.356	mg/kg	0.356	0.125	20.2	11/17/20 13:43	11/23/20 17:39	120-82-1	
1,1,1-Trichloroethane	<0.0711	mg/kg	0.0711	0.0262	20.2	11/17/20 13:43	11/23/20 17:39	71-55-6	
1,1,2-Trichloroethane	<0.0711	mg/kg	0.0711	0.0170	20.2	11/17/20 13:43	11/23/20 17:39	79-00-5	
Trichloroethene	<0.0284	mg/kg	0.0284	0.0166	20.2	11/17/20 13:43	11/23/20 17:39	79-01-6	
Trichlorofluoromethane	<0.0711	mg/kg	0.0711	0.0235	20.2	11/17/20 13:43	11/23/20 17:39	75-69-4	
1,2,3-Trichloropropane	<0.356	mg/kg	0.356	0.0460	20.2	11/17/20 13:43	11/23/20 17:39	96-18-4	
1,2,4-Trimethylbenzene	495	mg/kg	2.84	0.898	404	11/17/20 13:43	11/27/20 13:11	95-63-6	
1,2,3-Trimethylbenzene	136	mg/kg	2.84	0.898	404	11/17/20 13:43	11/27/20 13:11	526-73-8	
1,3,5-Trimethylbenzene	149	mg/kg	2.84	1.14	404	11/17/20 13:43	11/27/20 13:11	108-67-8	
Vinyl chloride	<0.0711	mg/kg	0.0711	0.0329	20.2	11/17/20 13:43	11/23/20 17:39	75-01-4	
Xylene (Total)	2210	mg/kg	3.70	0.501	404	11/17/20 13:43	11/27/20 13:11	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	91.4	%	75.0-131		20.2	11/17/20 13:43	11/23/20 17:39	2037-26-5	
Toluene-d8 (S)	111	%	75.0-131		404	11/17/20 13:43	11/27/20 13:11	2037-26-5	
4-Bromofluorobenzene (S)	78.8	%	67.0-138		20.2	11/17/20 13:43	11/23/20 17:39	460-00-4	
4-Bromofluorobenzene (S)	93.9	%	67.0-138		404	11/17/20 13:43	11/27/20 13:11	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70.0-130		20.2	11/17/20 13:43	11/23/20 17:39	17060-07-0	
1,2-Dichloroethane-d4 (S)	114	%	70.0-130		404	11/17/20 13:43	11/27/20 13:11	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G    Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	83.0	%			1	11/25/20 05:49	11/25/20 05:57		

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 225-W**      **Lab ID: 92506678004**      Collected: 11/17/20 09:37      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH      Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>6790</b>	mg/kg	327	109	40	11/17/20 09:37	11/27/20 12:36		
Aliphatic (C09-C12)	<b>4680</b>	mg/kg	327	109	40	11/17/20 09:37	11/27/20 12:36		
Aromatic (C09-C10), Unadjusted	<b>1700</b>	mg/kg	327	109	40	11/17/20 09:37	11/27/20 12:36	TPHC9C10A	
Total VPH	<b>13200</b>	mg/kg	327	109	40	11/17/20 09:37	11/27/20 12:36	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	90.5	%	70.0-130		40	11/17/20 09:37	11/27/20 12:36	615-59-8FID	
2,5-Dibromotoluene (PID)	89.7	%	70.0-130		40	11/17/20 09:37	11/27/20 12:36	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<1.67	mg/kg	1.67	1.22	20	11/17/20 09:37	11/23/20 17:58	67-64-1	
Acrylonitrile	<0.417	mg/kg	0.417	0.120	20	11/17/20 09:37	11/23/20 17:58	107-13-1	
Benzene	<b>49.1</b>	mg/kg	0.0334	0.0156	20	11/17/20 09:37	11/23/20 17:58	71-43-2	
Bromobenzene	<0.417	mg/kg	0.417	0.0300	20	11/17/20 09:37	11/23/20 17:58	108-86-1	
Bromodichloromethane	<0.0834	mg/kg	0.0834	0.0242	20	11/17/20 09:37	11/23/20 17:58	75-27-4	
Bromoform	<0.834	mg/kg	0.834	0.0390	20	11/17/20 09:37	11/23/20 17:58	75-25-2	
Bromomethane	<0.417	mg/kg	0.417	0.0657	20	11/17/20 09:37	11/23/20 17:58	74-83-9	
n-Butylbenzene	<b>25.4</b>	mg/kg	0.417	0.175	20	11/17/20 09:37	11/23/20 17:58	104-51-8	
sec-Butylbenzene	<b>10.6</b>	mg/kg	0.417	0.0961	20	11/17/20 09:37	11/23/20 17:58	135-98-8	
tert-Butylbenzene	<0.167	mg/kg	0.167	0.0651	20	11/17/20 09:37	11/23/20 17:58	98-06-6	
Carbon tetrachloride	<0.167	mg/kg	0.167	0.0300	20	11/17/20 09:37	11/23/20 17:58	56-23-5	
Chlorobenzene	<b>0.395</b>	mg/kg	0.0834	0.00701	20	11/17/20 09:37	11/23/20 17:58	108-90-7	
Dibromochloromethane	<0.0834	mg/kg	0.0834	0.0204	20	11/17/20 09:37	11/23/20 17:58	124-48-1	
Chloroethane	<0.167	mg/kg	0.167	0.0567	20	11/17/20 09:37	11/23/20 17:58	75-00-3	
Chloroform	<0.0834	mg/kg	0.0834	0.0344	20	11/17/20 09:37	11/23/20 17:58	67-66-3	
Chloromethane	<0.417	mg/kg	0.417	0.145	20	11/17/20 09:37	11/23/20 17:58	74-87-3	
2-Chlorotoluene	<1.67	mg/kg	1.67	0.577	400	11/17/20 09:37	11/27/20 13:30	95-49-8	
4-Chlorotoluene	<0.167	mg/kg	0.167	0.0150	20	11/17/20 09:37	11/23/20 17:58	106-43-4	
1,2-Dibromo-3-chloropropane	<0.834	mg/kg	0.834	0.130	20	11/17/20 09:37	11/23/20 17:58	96-12-8	
1,2-Dibromoethane (EDB)	<0.0834	mg/kg	0.0834	0.0217	20	11/17/20 09:37	11/23/20 17:58	106-93-4	
Dibromomethane	<0.167	mg/kg	0.167	0.0250	20	11/17/20 09:37	11/23/20 17:58	74-95-3	
1,2-Dichlorobenzene	<0.167	mg/kg	0.167	0.0142	20	11/17/20 09:37	11/23/20 17:58	95-50-1	
1,3-Dichlorobenzene	<0.167	mg/kg	0.167	0.0200	20	11/17/20 09:37	11/23/20 17:58	541-73-1	
1,4-Dichlorobenzene	<0.167	mg/kg	0.167	0.0234	20	11/17/20 09:37	11/23/20 17:58	106-46-7	
Dichlorodifluoromethane	<0.0834	mg/kg	0.0834	0.0537	20	11/17/20 09:37	11/23/20 17:58	75-71-8	
1,1-Dichloroethane	<0.0834	mg/kg	0.0834	0.0164	20	11/17/20 09:37	11/23/20 17:58	75-34-3	
1,2-Dichloroethane	<0.0834	mg/kg	0.0834	0.0217	20	11/17/20 09:37	11/23/20 17:58	107-06-2	
1,1-Dichloroethene	<0.0834	mg/kg	0.0834	0.0202	20	11/17/20 09:37	11/23/20 17:58	75-35-4	
cis-1,2-Dichloroethene	<0.0834	mg/kg	0.0834	0.0245	20	11/17/20 09:37	11/23/20 17:58	156-59-2	
trans-1,2-Dichloroethene	<0.167	mg/kg	0.167	0.0347	20	11/17/20 09:37	11/23/20 17:58	156-60-5	
1,2-Dichloropropane	<0.167	mg/kg	0.167	0.0474	20	11/17/20 09:37	11/23/20 17:58	78-87-5	
1,1-Dichloropropene	<0.0834	mg/kg	0.0834	0.0270	20	11/17/20 09:37	11/23/20 17:58	563-58-6	
1,3-Dichloropropane	<0.167	mg/kg	0.167	0.0167	20	11/17/20 09:37	11/23/20 17:58	142-28-9	
cis-1,3-Dichloropropene	<0.0834	mg/kg	0.0834	0.0252	20	11/17/20 09:37	11/23/20 17:58	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 225-W**      **Lab ID: 92506678004**      Collected: 11/17/20 09:37      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.167	mg/kg	0.167	0.0380	20	11/17/20 09:37	11/23/20 17:58	10061-02-6	
2,2-Dichloropropane	<0.0834	mg/kg	0.0834	0.0460	20	11/17/20 09:37	11/23/20 17:58	594-20-7	
Diisopropyl ether	2.77	mg/kg	0.0334	0.0137	20	11/17/20 09:37	11/23/20 17:58	108-20-3	
Ethylbenzene	310	mg/kg	1.67	0.492	400	11/17/20 09:37	11/27/20 13:30	100-41-4	
Hexachloro-1,3-butadiene	<0.834	mg/kg	0.834	0.200	20	11/17/20 09:37	11/23/20 17:58	87-68-3	
Isopropylbenzene (Cumene)	34.2	mg/kg	0.0834	0.0142	20	11/17/20 09:37	11/23/20 17:58	98-82-8	
p-Isopropyltoluene	5.49	mg/kg	0.167	0.0851	20	11/17/20 09:37	11/23/20 17:58	99-87-6	
2-Butanone (MEK)	<3.34	mg/kg	3.34	2.12	20	11/17/20 09:37	11/23/20 17:58	78-93-3	
Methylene Chloride	<0.834	mg/kg	0.834	0.222	20	11/17/20 09:37	11/23/20 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.834	mg/kg	0.834	0.0761	20	11/17/20 09:37	11/23/20 17:58	108-10-1	
Methyl-tert-butyl ether	0.225	mg/kg	0.0334	0.0117	20	11/17/20 09:37	11/23/20 17:58	1634-04-4	
Naphthalene	60.9	mg/kg	0.417	0.163	20	11/17/20 09:37	11/23/20 17:58	91-20-3	C3
n-Propylbenzene	104	mg/kg	0.167	0.0317	20	11/17/20 09:37	11/23/20 17:58	103-65-1	E
Styrene	<0.417	mg/kg	0.417	0.00764	20	11/17/20 09:37	11/23/20 17:58	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0834	mg/kg	0.0834	0.0317	20	11/17/20 09:37	11/23/20 17:58	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0834	mg/kg	0.0834	0.0232	20	11/17/20 09:37	11/23/20 17:58	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0834	mg/kg	0.0834	0.0252	20	11/17/20 09:37	11/23/20 17:58	76-13-1	
Tetrachloroethene	<0.0834	mg/kg	0.0834	0.0299	20	11/17/20 09:37	11/23/20 17:58	127-18-4	
Toluene	661	mg/kg	3.34	0.868	400	11/17/20 09:37	11/27/20 13:30	108-88-3	
1,2,3-Trichlorobenzene	<0.417	mg/kg	0.417	0.245	20	11/17/20 09:37	11/23/20 17:58	87-61-6	C4
1,2,4-Trichlorobenzene	<0.417	mg/kg	0.417	0.147	20	11/17/20 09:37	11/23/20 17:58	120-82-1	
1,1,1-Trichloroethane	<0.0834	mg/kg	0.0834	0.0309	20	11/17/20 09:37	11/23/20 17:58	71-55-6	
1,1,2-Trichloroethane	<0.0834	mg/kg	0.0834	0.0199	20	11/17/20 09:37	11/23/20 17:58	79-00-5	
Trichloroethene	<0.0334	mg/kg	0.0334	0.0195	20	11/17/20 09:37	11/23/20 17:58	79-01-6	
Trichlorofluoromethane	<0.0834	mg/kg	0.0834	0.0275	20	11/17/20 09:37	11/23/20 17:58	75-69-4	
1,2,3-Trichloropropane	<0.417	mg/kg	0.417	0.0541	20	11/17/20 09:37	11/23/20 17:58	96-18-4	
1,2,4-Trimethylbenzene	439	mg/kg	3.34	1.05	400	11/17/20 09:37	11/27/20 13:30	95-63-6	
1,2,3-Trimethylbenzene	129	mg/kg	3.34	1.05	400	11/17/20 09:37	11/27/20 13:30	526-73-8	
1,3,5-Trimethylbenzene	125	mg/kg	3.34	1.33	400	11/17/20 09:37	11/27/20 13:30	108-67-8	
Vinyl chloride	<0.0834	mg/kg	0.0834	0.0387	20	11/17/20 09:37	11/23/20 17:58	75-01-4	
Xylene (Total)	1700	mg/kg	4.34	0.587	400	11/17/20 09:37	11/27/20 13:30	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	121	%	75.0-131		20	11/17/20 09:37	11/23/20 17:58	2037-26-5	
Toluene-d8 (S)	105	%	75.0-131		400	11/17/20 09:37	11/27/20 13:30	2037-26-5	
4-Bromofluorobenzene (S)	113	%	67.0-138		20	11/17/20 09:37	11/23/20 17:58	460-00-4	
4-Bromofluorobenzene (S)	93.9	%	67.0-138		400	11/17/20 09:37	11/27/20 13:30	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70.0-130		20	11/17/20 09:37	11/23/20 17:58	17060-07-0	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130		400	11/17/20 09:37	11/27/20 13:30	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G    Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	76.5	%			1	11/25/20 05:49	11/25/20 05:57		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 225-B**      **Lab ID: 92506678005**      Collected: 11/17/20 10:01      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>2470</b>	mg/kg	65.4	21.8	4	11/17/20 10:01	11/24/20 00:09		
Aliphatic (C09-C12)	<b>1160</b>	mg/kg	65.4	21.8	4	11/17/20 10:01	11/24/20 00:09		
Aromatic (C09-C10), Unadjusted	<b>696</b>	mg/kg	65.4	21.8	4	11/17/20 10:01	11/24/20 00:09	TPHC9C10A	
Total VPH	<b>4330</b>	mg/kg	65.4	21.8	4	11/17/20 10:01	11/24/20 00:09	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	90.4	%	70.0-130		4	11/17/20 10:01	11/24/20 00:09	615-59-8FID	
2,5-Dibromotoluene (PID)	86.6	%	70.0-130		4	11/17/20 10:01	11/24/20 00:09	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<b>&lt;3.65</b>	mg/kg	3.65	2.66	26.4	11/17/20 10:01	11/23/20 18:17	67-64-1	
Acrylonitrile	<b>&lt;0.912</b>	mg/kg	0.912	0.263	26.4	11/17/20 10:01	11/23/20 18:17	107-13-1	
Benzene	<b>9.34</b>	mg/kg	0.0730	0.0340	26.4	11/17/20 10:01	11/23/20 18:17	71-43-2	
Bromobenzene	<b>&lt;0.912</b>	mg/kg	0.912	0.0658	26.4	11/17/20 10:01	11/23/20 18:17	108-86-1	
Bromodichloromethane	<b>&lt;0.182</b>	mg/kg	0.182	0.0528	26.4	11/17/20 10:01	11/23/20 18:17	75-27-4	
Bromoform	<b>&lt;1.82</b>	mg/kg	1.82	0.0854	26.4	11/17/20 10:01	11/23/20 18:17	75-25-2	
Bromomethane	<b>&lt;0.912</b>	mg/kg	0.912	0.144	26.4	11/17/20 10:01	11/23/20 18:17	74-83-9	
n-Butylbenzene	<b>3.93</b>	mg/kg	0.912	0.384	26.4	11/17/20 10:01	11/23/20 18:17	104-51-8	
sec-Butylbenzene	<b>1.21</b>	mg/kg	0.912	0.210	26.4	11/17/20 10:01	11/23/20 18:17	135-98-8	
tert-Butylbenzene	<b>&lt;0.365</b>	mg/kg	0.365	0.142	26.4	11/17/20 10:01	11/23/20 18:17	98-06-6	
Carbon tetrachloride	<b>&lt;0.365</b>	mg/kg	0.365	0.0655	26.4	11/17/20 10:01	11/23/20 18:17	56-23-5	
Chlorobenzene	<b>&lt;0.182</b>	mg/kg	0.182	0.0153	26.4	11/17/20 10:01	11/23/20 18:17	108-90-7	
Dibromochloromethane	<b>&lt;0.182</b>	mg/kg	0.182	0.0448	26.4	11/17/20 10:01	11/23/20 18:17	124-48-1	
Chloroethane	<b>&lt;0.365</b>	mg/kg	0.365	0.124	26.4	11/17/20 10:01	11/23/20 18:17	75-00-3	
Chloroform	<b>&lt;0.182</b>	mg/kg	0.182	0.0752	26.4	11/17/20 10:01	11/23/20 18:17	67-66-3	
Chloromethane	<b>&lt;0.912</b>	mg/kg	0.912	0.318	26.4	11/17/20 10:01	11/23/20 18:17	74-87-3	
2-Chlorotoluene	<b>&lt;0.182</b>	mg/kg	0.182	0.0630	26.4	11/17/20 10:01	11/23/20 18:17	95-49-8	
4-Chlorotoluene	<b>&lt;0.365</b>	mg/kg	0.365	0.0329	26.4	11/17/20 10:01	11/23/20 18:17	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;1.82</b>	mg/kg	1.82	0.285	26.4	11/17/20 10:01	11/23/20 18:17	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.182</b>	mg/kg	0.182	0.0473	26.4	11/17/20 10:01	11/23/20 18:17	106-93-4	
Dibromomethane	<b>&lt;0.365</b>	mg/kg	0.365	0.0547	26.4	11/17/20 10:01	11/23/20 18:17	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.365</b>	mg/kg	0.365	0.0310	26.4	11/17/20 10:01	11/23/20 18:17	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.365</b>	mg/kg	0.365	0.0437	26.4	11/17/20 10:01	11/23/20 18:17	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.365</b>	mg/kg	0.365	0.0511	26.4	11/17/20 10:01	11/23/20 18:17	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.182</b>	mg/kg	0.182	0.117	26.4	11/17/20 10:01	11/23/20 18:17	75-71-8	
1,1-Dichloroethane	<b>&lt;0.182</b>	mg/kg	0.182	0.0359	26.4	11/17/20 10:01	11/23/20 18:17	75-34-3	
1,2-Dichloroethane	<b>&lt;0.182</b>	mg/kg	0.182	0.0473	26.4	11/17/20 10:01	11/23/20 18:17	107-06-2	
1,1-Dichloroethene	<b>&lt;0.182</b>	mg/kg	0.182	0.0442	26.4	11/17/20 10:01	11/23/20 18:17	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.182</b>	mg/kg	0.182	0.0536	26.4	11/17/20 10:01	11/23/20 18:17	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.365</b>	mg/kg	0.365	0.0760	26.4	11/17/20 10:01	11/23/20 18:17	156-60-5	
1,2-Dichloropropane	<b>&lt;0.365</b>	mg/kg	0.365	0.104	26.4	11/17/20 10:01	11/23/20 18:17	78-87-5	
1,1-Dichloropropene	<b>&lt;0.182</b>	mg/kg	0.182	0.0592	26.4	11/17/20 10:01	11/23/20 18:17	563-58-6	
1,3-Dichloropropane	<b>&lt;0.365</b>	mg/kg	0.365	0.0365	26.4	11/17/20 10:01	11/23/20 18:17	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.182</b>	mg/kg	0.182	0.0553	26.4	11/17/20 10:01	11/23/20 18:17	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

Sample: 225-B Lab ID: 92506678005 Collected: 11/17/20 10:01 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.365	mg/kg	0.365	0.0832	26.4	11/17/20 10:01	11/23/20 18:17	10061-02-6	
2,2-Dichloropropane	<0.182	mg/kg	0.182	0.101	26.4	11/17/20 10:01	11/23/20 18:17	594-20-7	
Diisopropyl ether	1.13	mg/kg	0.0730	0.0299	26.4	11/17/20 10:01	11/23/20 18:17	108-20-3	
Ethylbenzene	190	mg/kg	1.82	0.539	264	11/17/20 10:01	11/29/20 20:56	100-41-4	
Hexachloro-1,3-butadiene	<1.82	mg/kg	1.82	0.437	26.4	11/17/20 10:01	11/23/20 18:17	87-68-3	
Isopropylbenzene (Cumene)	2.36	mg/kg	0.182	0.0310	26.4	11/17/20 10:01	11/23/20 18:17	98-82-8	
p-Isopropyltoluene	0.641	mg/kg	0.365	0.186	26.4	11/17/20 10:01	11/23/20 18:17	99-87-6	
2-Butanone (MEK)	<7.30	mg/kg	7.30	4.64	26.4	11/17/20 10:01	11/23/20 18:17	78-93-3	
Methylene Chloride	<1.82	mg/kg	1.82	0.484	26.4	11/17/20 10:01	11/23/20 18:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.82	mg/kg	1.82	0.166	26.4	11/17/20 10:01	11/23/20 18:17	108-10-1	
Methyl-tert-butyl ether	<0.0730	mg/kg	0.0730	0.0255	26.4	11/17/20 10:01	11/23/20 18:17	1634-04-4	
Naphthalene	12.7	mg/kg	0.912	0.357	26.4	11/17/20 10:01	11/23/20 18:17	91-20-3	C3
n-Propylbenzene	68.6	mg/kg	3.65	0.694	264	11/17/20 10:01	11/29/20 20:56	103-65-1	
Styrene	<0.912	mg/kg	0.912	0.0167	26.4	11/17/20 10:01	11/23/20 18:17	100-42-5	
1,1,1,2-Tetrachloroethane	<0.182	mg/kg	0.182	0.0691	26.4	11/17/20 10:01	11/23/20 18:17	630-20-6	
1,1,2,2-Tetrachloroethane	<0.182	mg/kg	0.182	0.0506	26.4	11/17/20 10:01	11/23/20 18:17	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.182	mg/kg	0.182	0.0550	26.4	11/17/20 10:01	11/23/20 18:17	76-13-1	
Tetrachloroethene	<0.182	mg/kg	0.182	0.0655	26.4	11/17/20 10:01	11/23/20 18:17	127-18-4	
Toluene	312	mg/kg	3.65	0.948	264	11/17/20 10:01	11/29/20 20:56	108-88-3	
1,2,3-Trichlorobenzene	<0.912	mg/kg	0.912	0.536	26.4	11/17/20 10:01	11/23/20 18:17	87-61-6	C4
1,2,4-Trichlorobenzene	<0.912	mg/kg	0.912	0.321	26.4	11/17/20 10:01	11/23/20 18:17	120-82-1	
1,1,1-Trichloroethane	<0.182	mg/kg	0.182	0.0674	26.4	11/17/20 10:01	11/23/20 18:17	71-55-6	
1,1,2-Trichloroethane	<0.182	mg/kg	0.182	0.0437	26.4	11/17/20 10:01	11/23/20 18:17	79-00-5	
Trichloroethene	<0.0730	mg/kg	0.0730	0.0426	26.4	11/17/20 10:01	11/23/20 18:17	79-01-6	
Trichlorofluoromethane	<0.182	mg/kg	0.182	0.0603	26.4	11/17/20 10:01	11/23/20 18:17	75-69-4	
1,2,3-Trichloropropane	<0.912	mg/kg	0.912	0.118	26.4	11/17/20 10:01	11/23/20 18:17	96-18-4	
1,2,4-Trimethylbenzene	354	mg/kg	3.65	1.15	264	11/17/20 10:01	11/29/20 20:56	95-63-6	
1,2,3-Trimethylbenzene	103	mg/kg	3.65	1.15	264	11/17/20 10:01	11/29/20 20:56	526-73-8	
1,3,5-Trimethylbenzene	110	mg/kg	3.65	1.46	264	11/17/20 10:01	11/29/20 20:56	108-67-8	
Vinyl chloride	<0.182	mg/kg	0.182	0.0846	26.4	11/17/20 10:01	11/23/20 18:17	75-01-4	
Xylene (Total)	1190	mg/kg	4.75	0.641	264	11/17/20 10:01	11/29/20 20:56	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	75.0-131		26.4	11/17/20 10:01	11/23/20 18:17	2037-26-5	
Toluene-d8 (S)	102	%	75.0-131		264	11/17/20 10:01	11/29/20 20:56	2037-26-5	
4-Bromofluorobenzene (S)	96.4	%	67.0-138		26.4	11/17/20 10:01	11/23/20 18:17	460-00-4	
4-Bromofluorobenzene (S)	94.7	%	67.0-138		264	11/17/20 10:01	11/29/20 20:56	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130		26.4	11/17/20 10:01	11/23/20 18:17	17060-07-0	
1,2-Dichloroethane-d4 (S)	113	%	70.0-130		264	11/17/20 10:01	11/29/20 20:56	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	49.9	%			1	11/25/20 05:49	11/25/20 05:57		

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 225-E**      **Lab ID: 92506678006**      Collected: 11/17/20 13:48      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	5090	mg/kg	43.1	14.4	5.4	11/17/20 13:48	11/24/20 00:43		
Aliphatic (C09-C12)	6240	mg/kg	43.1	14.4	5.4	11/17/20 13:48	11/24/20 00:43		
Aromatic (C09-C10), Unadjusted	1500	mg/kg	345	115	43.2	11/17/20 13:48	11/27/20 13:09	TPHC9C10A	
Total VPH	11300	mg/kg	43.1	14.4	5.4	11/17/20 13:48	11/24/20 00:43	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	95.8	%	70.0-130		5.4	11/17/20 13:48	11/24/20 00:43	615-59-8FID	
2,5-Dibromotoluene (FID)	85.5	%	70.0-130		43.2	11/17/20 13:48	11/27/20 13:09	615-59-8FID	
2,5-Dibromotoluene (PID)	86.9	%	70.0-130		5.4	11/17/20 13:48	11/24/20 00:43	615-59-8PID	
2,5-Dibromotoluene (PID)	84.7	%	70.0-130		43.2	11/17/20 13:48	11/27/20 13:09	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<1.65	mg/kg	1.65	1.20	20	11/17/20 13:48	11/23/20 18:36	67-64-1	
Acrylonitrile	<0.412	mg/kg	0.412	0.119	20	11/17/20 13:48	11/23/20 18:36	107-13-1	
Benzene	60.4	mg/kg	0.0329	0.0154	20	11/17/20 13:48	11/23/20 18:36	71-43-2	
Bromobenzene	<0.412	mg/kg	0.412	0.0296	20	11/17/20 13:48	11/23/20 18:36	108-86-1	
Bromodichloromethane	<0.0823	mg/kg	0.0823	0.0239	20	11/17/20 13:48	11/23/20 18:36	75-27-4	
Bromoform	<0.823	mg/kg	0.823	0.0385	20	11/17/20 13:48	11/23/20 18:36	75-25-2	
Bromomethane	<0.412	mg/kg	0.412	0.0649	20	11/17/20 13:48	11/23/20 18:36	74-83-9	
n-Butylbenzene	22.9	mg/kg	0.412	0.173	20	11/17/20 13:48	11/23/20 18:36	104-51-8	
sec-Butylbenzene	9.63	mg/kg	0.412	0.0948	20	11/17/20 13:48	11/23/20 18:36	135-98-8	
tert-Butylbenzene	<0.165	mg/kg	0.165	0.0642	20	11/17/20 13:48	11/23/20 18:36	98-06-6	
Carbon tetrachloride	<0.165	mg/kg	0.165	0.0296	20	11/17/20 13:48	11/23/20 18:36	56-23-5	
Chlorobenzene	<0.0823	mg/kg	0.0823	0.00692	20	11/17/20 13:48	11/23/20 18:36	108-90-7	
Dibromochloromethane	<0.0823	mg/kg	0.0823	0.0201	20	11/17/20 13:48	11/23/20 18:36	124-48-1	
Chloroethane	<0.165	mg/kg	0.165	0.0560	20	11/17/20 13:48	11/23/20 18:36	75-00-3	
Chloroform	<0.0823	mg/kg	0.0823	0.0339	20	11/17/20 13:48	11/23/20 18:36	67-66-3	
Chloromethane	<0.412	mg/kg	0.412	0.143	20	11/17/20 13:48	11/23/20 18:36	74-87-3	
2-Chlorotoluene	<1.65	mg/kg	1.65	0.570	400	11/17/20 13:48	11/27/20 14:08	95-49-8	
4-Chlorotoluene	<0.165	mg/kg	0.165	0.0148	20	11/17/20 13:48	11/23/20 18:36	106-43-4	
1,2-Dibromo-3-chloropropane	<0.823	mg/kg	0.823	0.128	20	11/17/20 13:48	11/23/20 18:36	96-12-8	
1,2-Dibromoethane (EDB)	<0.0823	mg/kg	0.0823	0.0214	20	11/17/20 13:48	11/23/20 18:36	106-93-4	
Dibromomethane	<0.165	mg/kg	0.165	0.0247	20	11/17/20 13:48	11/23/20 18:36	74-95-3	
1,2-Dichlorobenzene	<0.165	mg/kg	0.165	0.0140	20	11/17/20 13:48	11/23/20 18:36	95-50-1	
1,3-Dichlorobenzene	<0.165	mg/kg	0.165	0.0198	20	11/17/20 13:48	11/23/20 18:36	541-73-1	
1,4-Dichlorobenzene	<0.165	mg/kg	0.165	0.0231	20	11/17/20 13:48	11/23/20 18:36	106-46-7	
Dichlorodifluoromethane	<0.0823	mg/kg	0.0823	0.0530	20	11/17/20 13:48	11/23/20 18:36	75-71-8	
1,1-Dichloroethane	<0.0823	mg/kg	0.0823	0.0162	20	11/17/20 13:48	11/23/20 18:36	75-34-3	
1,2-Dichloroethane	<0.0823	mg/kg	0.0823	0.0214	20	11/17/20 13:48	11/23/20 18:36	107-06-2	
1,1-Dichloroethene	<0.0823	mg/kg	0.0823	0.0199	20	11/17/20 13:48	11/23/20 18:36	75-35-4	
cis-1,2-Dichloroethene	<0.0823	mg/kg	0.0823	0.0242	20	11/17/20 13:48	11/23/20 18:36	156-59-2	
trans-1,2-Dichloroethene	<0.165	mg/kg	0.165	0.0342	20	11/17/20 13:48	11/23/20 18:36	156-60-5	
1,2-Dichloropropane	<0.165	mg/kg	0.165	0.0468	20	11/17/20 13:48	11/23/20 18:36	78-87-5	
1,1-Dichloropropene	<0.0823	mg/kg	0.0823	0.0267	20	11/17/20 13:48	11/23/20 18:36	563-58-6	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

Sample: 225-E Lab ID: 92506678006 Collected: 11/17/20 13:48 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.165	mg/kg	0.165	0.0165	20	11/17/20 13:48	11/23/20 18:36	142-28-9	
cis-1,3-Dichloropropene	<0.0823	mg/kg	0.0823	0.0249	20	11/17/20 13:48	11/23/20 18:36	10061-01-5	
trans-1,3-Dichloropropene	<0.165	mg/kg	0.165	0.0375	20	11/17/20 13:48	11/23/20 18:36	10061-02-6	
2,2-Dichloropropane	<0.0823	mg/kg	0.0823	0.0454	20	11/17/20 13:48	11/23/20 18:36	594-20-7	
Diisopropyl ether	3.42	mg/kg	0.0329	0.0135	20	11/17/20 13:48	11/23/20 18:36	108-20-3	
Ethylbenzene	199	mg/kg	1.65	0.486	400	11/17/20 13:48	11/27/20 14:08	100-41-4	
Hexachloro-1,3-butadiene	<0.823	mg/kg	0.823	0.198	20	11/17/20 13:48	11/23/20 18:36	87-68-3	
Isopropylbenzene (Cumene)	29.8	mg/kg	0.0823	0.0140	20	11/17/20 13:48	11/23/20 18:36	98-82-8	
p-Isopropyltoluene	5.10	mg/kg	0.165	0.0840	20	11/17/20 13:48	11/23/20 18:36	99-87-6	
2-Butanone (MEK)	<3.29	mg/kg	3.29	2.09	20	11/17/20 13:48	11/23/20 18:36	78-93-3	
Methylene Chloride	<0.823	mg/kg	0.823	0.219	20	11/17/20 13:48	11/23/20 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.823	mg/kg	0.823	0.0751	20	11/17/20 13:48	11/23/20 18:36	108-10-1	
Methyl-tert-butyl ether	0.497	mg/kg	0.0329	0.0115	20	11/17/20 13:48	11/23/20 18:36	1634-04-4	
Naphthalene	45.6	mg/kg	0.412	0.161	20	11/17/20 13:48	11/23/20 18:36	91-20-3	C3
n-Propylbenzene	102	mg/kg	0.165	0.0313	20	11/17/20 13:48	11/23/20 18:36	103-65-1	E
Styrene	<0.412	mg/kg	0.412	0.00754	20	11/17/20 13:48	11/23/20 18:36	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0823	mg/kg	0.0823	0.0313	20	11/17/20 13:48	11/23/20 18:36	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0823	mg/kg	0.0823	0.0229	20	11/17/20 13:48	11/23/20 18:36	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0823	mg/kg	0.0823	0.0249	20	11/17/20 13:48	11/23/20 18:36	76-13-1	
Tetrachloroethene	<0.0823	mg/kg	0.0823	0.0295	20	11/17/20 13:48	11/23/20 18:36	127-18-4	
Toluene	517	mg/kg	3.29	0.856	400	11/17/20 13:48	11/27/20 14:08	108-88-3	
1,2,3-Trichlorobenzene	<0.412	mg/kg	0.412	0.242	20	11/17/20 13:48	11/23/20 18:36	87-61-6	C4
1,2,4-Trichlorobenzene	<0.412	mg/kg	0.412	0.145	20	11/17/20 13:48	11/23/20 18:36	120-82-1	
1,1,1-Trichloroethane	<0.0823	mg/kg	0.0823	0.0305	20	11/17/20 13:48	11/23/20 18:36	71-55-6	
1,1,2-Trichloroethane	<0.0823	mg/kg	0.0823	0.0196	20	11/17/20 13:48	11/23/20 18:36	79-00-5	
Trichloroethene	<0.0329	mg/kg	0.0329	0.0193	20	11/17/20 13:48	11/23/20 18:36	79-01-6	
Trichlorofluoromethane	<0.0823	mg/kg	0.0823	0.0272	20	11/17/20 13:48	11/23/20 18:36	75-69-4	
1,2,3-Trichloropropane	<0.412	mg/kg	0.412	0.0534	20	11/17/20 13:48	11/23/20 18:36	96-18-4	
1,2,4-Trimethylbenzene	315	mg/kg	3.29	1.04	400	11/17/20 13:48	11/27/20 14:08	95-63-6	
1,2,3-Trimethylbenzene	96.8	mg/kg	3.29	1.04	400	11/17/20 13:48	11/27/20 14:08	526-73-8	
1,3,5-Trimethylbenzene	90.4	mg/kg	3.29	1.32	400	11/17/20 13:48	11/27/20 14:08	108-67-8	
Vinyl chloride	<0.0823	mg/kg	0.0823	0.0382	20	11/17/20 13:48	11/23/20 18:36	75-01-4	
Xylene (Total)	1100	mg/kg	4.28	0.580	400	11/17/20 13:48	11/27/20 14:08	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	132	%	75.0-131		20	11/17/20 13:48	11/23/20 18:36	2037-26-5	ST
Toluene-d8 (S)	105	%	75.0-131		400	11/17/20 13:48	11/27/20 14:08	2037-26-5	
4-Bromofluorobenzene (S)	115	%	67.0-138		20	11/17/20 13:48	11/23/20 18:36	460-00-4	
4-Bromofluorobenzene (S)	91.5	%	67.0-138		400	11/17/20 13:48	11/27/20 14:08	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70.0-130		20	11/17/20 13:48	11/23/20 18:36	17060-07-0	
1,2-Dichloroethane-d4 (S)	115	%	70.0-130		400	11/17/20 13:48	11/27/20 14:08	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids 76.3 % 1 11/25/20 05:49 11/25/20 05:57

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 250-W**      **Lab ID: 92506678007**      Collected: 11/17/20 10:13      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>8610</b>	mg/kg	361	120	46.4	11/17/20 10:13	11/27/20 13:42		
Aliphatic (C09-C12)	<b>6250</b>	mg/kg	361	120	46.4	11/17/20 10:13	11/27/20 13:42		
Aromatic (C09-C10), Unadjusted	<b>2180</b>	mg/kg	361	120	46.4	11/17/20 10:13	11/27/20 13:42	TPHC9C10A	
Total VPH	<b>17100</b>	mg/kg	361	120	46.4	11/17/20 10:13	11/27/20 13:42	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	90.8	%	70.0-130		46.4	11/17/20 10:13	11/27/20 13:42	615-59-8FID	
2,5-Dibromotoluene (PID)	89.9	%	70.0-130		46.4	11/17/20 10:13	11/27/20 13:42	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<1.85	mg/kg	1.85	1.35	24	11/17/20 10:13	11/23/20 18:55	67-64-1	
Acrylonitrile	<0.464	mg/kg	0.464	0.134	24	11/17/20 10:13	11/23/20 18:55	107-13-1	
Benzene	<b>64.0</b>	mg/kg	0.0371	0.0173	24	11/17/20 10:13	11/23/20 18:55	71-43-2	
Bromobenzene	<0.464	mg/kg	0.464	0.0334	24	11/17/20 10:13	11/23/20 18:55	108-86-1	
Bromodichloromethane	<0.0927	mg/kg	0.0927	0.0269	24	11/17/20 10:13	11/23/20 18:55	75-27-4	
Bromoform	<0.927	mg/kg	0.927	0.0434	24	11/17/20 10:13	11/23/20 18:55	75-25-2	
Bromomethane	<0.464	mg/kg	0.464	0.0731	24	11/17/20 10:13	11/23/20 18:55	74-83-9	
n-Butylbenzene	<b>24.3</b>	mg/kg	0.464	0.195	24	11/17/20 10:13	11/23/20 18:55	104-51-8	
sec-Butylbenzene	<b>9.09</b>	mg/kg	0.464	0.107	24	11/17/20 10:13	11/23/20 18:55	135-98-8	
tert-Butylbenzene	<0.185	mg/kg	0.185	0.0723	24	11/17/20 10:13	11/23/20 18:55	98-06-6	
Carbon tetrachloride	<0.185	mg/kg	0.185	0.0334	24	11/17/20 10:13	11/23/20 18:55	56-23-5	
Chlorobenzene	<b>0.391</b>	mg/kg	0.0927	0.00779	24	11/17/20 10:13	11/23/20 18:55	108-90-7	
Dibromochloromethane	<0.0927	mg/kg	0.0927	0.0227	24	11/17/20 10:13	11/23/20 18:55	124-48-1	
Chloroethane	<0.185	mg/kg	0.185	0.0630	24	11/17/20 10:13	11/23/20 18:55	75-00-3	
Chloroform	<0.0927	mg/kg	0.0927	0.0382	24	11/17/20 10:13	11/23/20 18:55	67-66-3	
Chloromethane	<0.464	mg/kg	0.464	0.161	24	11/17/20 10:13	11/23/20 18:55	74-87-3	
2-Chlorotoluene	<0.0927	mg/kg	0.0927	0.0321	24	11/17/20 10:13	11/23/20 18:55	95-49-8	
4-Chlorotoluene	<0.185	mg/kg	0.185	0.0167	24	11/17/20 10:13	11/23/20 18:55	106-43-4	
1,2-Dibromo-3-chloropropane	<0.927	mg/kg	0.927	0.145	24	11/17/20 10:13	11/23/20 18:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.0927	mg/kg	0.0927	0.0241	24	11/17/20 10:13	11/23/20 18:55	106-93-4	
Dibromomethane	<0.185	mg/kg	0.185	0.0278	24	11/17/20 10:13	11/23/20 18:55	74-95-3	
1,2-Dichlorobenzene	<0.185	mg/kg	0.185	0.0158	24	11/17/20 10:13	11/23/20 18:55	95-50-1	
1,3-Dichlorobenzene	<0.185	mg/kg	0.185	0.0223	24	11/17/20 10:13	11/23/20 18:55	541-73-1	
1,4-Dichlorobenzene	<0.185	mg/kg	0.185	0.0260	24	11/17/20 10:13	11/23/20 18:55	106-46-7	
Dichlorodifluoromethane	<0.0927	mg/kg	0.0927	0.0596	24	11/17/20 10:13	11/23/20 18:55	75-71-8	
1,1-Dichloroethane	<0.0927	mg/kg	0.0927	0.0182	24	11/17/20 10:13	11/23/20 18:55	75-34-3	
1,2-Dichloroethane	<0.0927	mg/kg	0.0927	0.0241	24	11/17/20 10:13	11/23/20 18:55	107-06-2	
1,1-Dichloroethene	<0.0927	mg/kg	0.0927	0.0224	24	11/17/20 10:13	11/23/20 18:55	75-35-4	
cis-1,2-Dichloroethene	<0.0927	mg/kg	0.0927	0.0272	24	11/17/20 10:13	11/23/20 18:55	156-59-2	
trans-1,2-Dichloroethene	<0.185	mg/kg	0.185	0.0386	24	11/17/20 10:13	11/23/20 18:55	156-60-5	
1,2-Dichloropropane	<0.185	mg/kg	0.185	0.0527	24	11/17/20 10:13	11/23/20 18:55	78-87-5	
1,1-Dichloropropene	<0.0927	mg/kg	0.0927	0.0300	24	11/17/20 10:13	11/23/20 18:55	563-58-6	
1,3-Dichloropropane	<0.185	mg/kg	0.185	0.0185	24	11/17/20 10:13	11/23/20 18:55	142-28-9	
cis-1,3-Dichloropropene	<0.0927	mg/kg	0.0927	0.0281	24	11/17/20 10:13	11/23/20 18:55	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 250-W**      **Lab ID: 92506678007**      Collected: 11/17/20 10:13      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.185	mg/kg	0.185	0.0423	24	11/17/20 10:13	11/23/20 18:55	10061-02-6	
2,2-Dichloropropane	<0.0927	mg/kg	0.0927	0.0511	24	11/17/20 10:13	11/23/20 18:55	594-20-7	
Diisopropyl ether	9.94	mg/kg	0.0371	0.0152	24	11/17/20 10:13	11/23/20 18:55	108-20-3	
Ethylbenzene	413	mg/kg	1.85	0.547	480	11/17/20 10:13	11/27/20 14:27	100-41-4	
Hexachloro-1,3-butadiene	<0.927	mg/kg	0.927	0.223	24	11/17/20 10:13	11/23/20 18:55	87-68-3	
Isopropylbenzene (Cumene)	35.7	mg/kg	0.0927	0.0158	24	11/17/20 10:13	11/23/20 18:55	98-82-8	
p-Isopropyltoluene	5.33	mg/kg	0.185	0.0946	24	11/17/20 10:13	11/23/20 18:55	99-87-6	
2-Butanone (MEK)	<3.71	mg/kg	3.71	2.35	24	11/17/20 10:13	11/23/20 18:55	78-93-3	
Methylene Chloride	<0.927	mg/kg	0.927	0.246	24	11/17/20 10:13	11/23/20 18:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.927	mg/kg	0.927	0.0845	24	11/17/20 10:13	11/23/20 18:55	108-10-1	
Methyl-tert-butyl ether	0.590	mg/kg	0.0371	0.0130	24	11/17/20 10:13	11/23/20 18:55	1634-04-4	
Naphthalene	65.2	mg/kg	0.464	0.181	24	11/17/20 10:13	11/23/20 18:55	91-20-3	C3
n-Propylbenzene	116	mg/kg	3.71	0.705	480	11/17/20 10:13	11/27/20 14:27	103-65-1	
Styrene	<0.464	mg/kg	0.464	0.00850	24	11/17/20 10:13	11/23/20 18:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0927	mg/kg	0.0927	0.0352	24	11/17/20 10:13	11/23/20 18:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0927	mg/kg	0.0927	0.0258	24	11/17/20 10:13	11/23/20 18:55	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0927	mg/kg	0.0927	0.0280	24	11/17/20 10:13	11/23/20 18:55	76-13-1	
Tetrachloroethene	<0.0927	mg/kg	0.0927	0.0332	24	11/17/20 10:13	11/23/20 18:55	127-18-4	
Toluene	935	mg/kg	3.71	0.964	480	11/17/20 10:13	11/27/20 14:27	108-88-3	
1,2,3-Trichlorobenzene	<0.464	mg/kg	0.464	0.272	24	11/17/20 10:13	11/23/20 18:55	87-61-6	C4
1,2,4-Trichlorobenzene	<0.464	mg/kg	0.464	0.164	24	11/17/20 10:13	11/23/20 18:55	120-82-1	
1,1,1-Trichloroethane	<0.0927	mg/kg	0.0927	0.0343	24	11/17/20 10:13	11/23/20 18:55	71-55-6	
1,1,2-Trichloroethane	<0.0927	mg/kg	0.0927	0.0221	24	11/17/20 10:13	11/23/20 18:55	79-00-5	
Trichloroethene	<0.0371	mg/kg	0.0371	0.0216	24	11/17/20 10:13	11/23/20 18:55	79-01-6	
Trichlorofluoromethane	<0.0927	mg/kg	0.0927	0.0306	24	11/17/20 10:13	11/23/20 18:55	75-69-4	
1,2,3-Trichloropropane	<0.464	mg/kg	0.464	0.0601	24	11/17/20 10:13	11/23/20 18:55	96-18-4	
1,2,4-Trimethylbenzene	519	mg/kg	3.71	1.17	480	11/17/20 10:13	11/27/20 14:27	95-63-6	
1,2,3-Trimethylbenzene	148	mg/kg	3.71	1.17	480	11/17/20 10:13	11/27/20 14:27	526-73-8	
1,3,5-Trimethylbenzene	146	mg/kg	3.71	1.48	480	11/17/20 10:13	11/27/20 14:27	108-67-8	
Vinyl chloride	<0.0927	mg/kg	0.0927	0.0430	24	11/17/20 10:13	11/23/20 18:55	75-01-4	
Xylene (Total)	2150	mg/kg	4.82	0.652	480	11/17/20 10:13	11/27/20 14:27	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	117	%	75.0-131		24	11/17/20 10:13	11/23/20 18:55	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131		480	11/17/20 10:13	11/27/20 14:27	2037-26-5	
4-Bromofluorobenzene (S)	112	%	67.0-138		24	11/17/20 10:13	11/23/20 18:55	460-00-4	
4-Bromofluorobenzene (S)	95.6	%	67.0-138		480	11/17/20 10:13	11/27/20 14:27	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	70.0-130		24	11/17/20 10:13	11/23/20 18:55	17060-07-0	
1,2-Dichloroethane-d4 (S)	115	%	70.0-130		480	11/17/20 10:13	11/27/20 14:27	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G    Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	77.1	%			1	11/25/20 05:49	11/25/20 05:57		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 250-B**      **Lab ID: 92506678008**      Collected: 11/17/20 10:17      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	44.5	mg/kg	8.00	2.67	1	11/17/20 10:17	11/27/20 09:51		
Aliphatic (C09-C12)	38.2	mg/kg	8.00	2.67	1	11/17/20 10:17	11/27/20 09:51		
Aromatic (C09-C10), Unadjusted	25.7	mg/kg	8.00	2.67	1	11/17/20 10:17	11/27/20 09:51	TPHC9C10A	
Total VPH	108	mg/kg	8.00	2.67	1	11/17/20 10:17	11/27/20 09:51	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	88.0	%	70.0-130		1	11/17/20 10:17	11/27/20 09:51	615-59-8FID	
2,5-Dibromotoluene (PID)	87.2	%	70.0-130		1	11/17/20 10:17	11/27/20 09:51	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<1.65	mg/kg	1.65	1.20	21	11/17/20 10:17	11/23/20 19:14	67-64-1	
Acrylonitrile	<0.413	mg/kg	0.413	0.119	21	11/17/20 10:17	11/23/20 19:14	107-13-1	
Benzene	42.2	mg/kg	0.0329	0.0154	21	11/17/20 10:17	11/23/20 19:14	71-43-2	
Bromobenzene	<0.413	mg/kg	0.413	0.0297	21	11/17/20 10:17	11/23/20 19:14	108-86-1	
Bromodichloromethane	<0.0824	mg/kg	0.0824	0.0238	21	11/17/20 10:17	11/23/20 19:14	75-27-4	
Bromoform	<0.824	mg/kg	0.824	0.0386	21	11/17/20 10:17	11/23/20 19:14	75-25-2	
Bromomethane	<0.413	mg/kg	0.413	0.0650	21	11/17/20 10:17	11/23/20 19:14	74-83-9	
n-Butylbenzene	13.5	mg/kg	0.413	0.173	21	11/17/20 10:17	11/23/20 19:14	104-51-8	
sec-Butylbenzene	4.61	mg/kg	0.413	0.0949	21	11/17/20 10:17	11/23/20 19:14	135-98-8	
tert-Butylbenzene	<0.165	mg/kg	0.165	0.0642	21	11/17/20 10:17	11/23/20 19:14	98-06-6	
Carbon tetrachloride	<0.165	mg/kg	0.165	0.0297	21	11/17/20 10:17	11/23/20 19:14	56-23-5	
Chlorobenzene	<0.0824	mg/kg	0.0824	0.00692	21	11/17/20 10:17	11/23/20 19:14	108-90-7	
Dibromochloromethane	<0.0824	mg/kg	0.0824	0.0202	21	11/17/20 10:17	11/23/20 19:14	124-48-1	
Chloroethane	<0.165	mg/kg	0.165	0.0560	21	11/17/20 10:17	11/23/20 19:14	75-00-3	
Chloroform	<0.0824	mg/kg	0.0824	0.0339	21	11/17/20 10:17	11/23/20 19:14	67-66-3	
Chloromethane	<0.413	mg/kg	0.413	0.143	21	11/17/20 10:17	11/23/20 19:14	74-87-3	
2-Chlorotoluene	<0.0824	mg/kg	0.0824	0.0286	21	11/17/20 10:17	11/23/20 19:14	95-49-8	
4-Chlorotoluene	<0.165	mg/kg	0.165	0.0148	21	11/17/20 10:17	11/23/20 19:14	106-43-4	
1,2-Dibromo-3-chloropropane	<0.824	mg/kg	0.824	0.129	21	11/17/20 10:17	11/23/20 19:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.0824	mg/kg	0.0824	0.0213	21	11/17/20 10:17	11/23/20 19:14	106-93-4	
Dibromomethane	<0.165	mg/kg	0.165	0.0248	21	11/17/20 10:17	11/23/20 19:14	74-95-3	
1,2-Dichlorobenzene	<0.165	mg/kg	0.165	0.0140	21	11/17/20 10:17	11/23/20 19:14	95-50-1	
1,3-Dichlorobenzene	<0.165	mg/kg	0.165	0.0198	21	11/17/20 10:17	11/23/20 19:14	541-73-1	
1,4-Dichlorobenzene	<0.165	mg/kg	0.165	0.0231	21	11/17/20 10:17	11/23/20 19:14	106-46-7	
Dichlorodifluoromethane	<0.0824	mg/kg	0.0824	0.0530	21	11/17/20 10:17	11/23/20 19:14	75-71-8	
1,1-Dichloroethane	<0.0824	mg/kg	0.0824	0.0162	21	11/17/20 10:17	11/23/20 19:14	75-34-3	
1,2-Dichloroethane	<0.0824	mg/kg	0.0824	0.0213	21	11/17/20 10:17	11/23/20 19:14	107-06-2	
1,1-Dichloroethene	<0.0824	mg/kg	0.0824	0.0199	21	11/17/20 10:17	11/23/20 19:14	75-35-4	
cis-1,2-Dichloroethene	<0.0824	mg/kg	0.0824	0.0242	21	11/17/20 10:17	11/23/20 19:14	156-59-2	
trans-1,2-Dichloroethene	<0.165	mg/kg	0.165	0.0342	21	11/17/20 10:17	11/23/20 19:14	156-60-5	
1,2-Dichloropropane	<0.165	mg/kg	0.165	0.0468	21	11/17/20 10:17	11/23/20 19:14	78-87-5	
1,1-Dichloropropene	<0.0824	mg/kg	0.0824	0.0267	21	11/17/20 10:17	11/23/20 19:14	563-58-6	
1,3-Dichloropropane	<0.165	mg/kg	0.165	0.0165	21	11/17/20 10:17	11/23/20 19:14	142-28-9	
cis-1,3-Dichloropropene	<0.0824	mg/kg	0.0824	0.0249	21	11/17/20 10:17	11/23/20 19:14	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 250-B**      **Lab ID: 92506678008**      Collected: 11/17/20 10:17      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.165	mg/kg	0.165	0.0375	21	11/17/20 10:17	11/23/20 19:14	10061-02-6	
2,2-Dichloropropane	<0.0824	mg/kg	0.0824	0.0455	21	11/17/20 10:17	11/23/20 19:14	594-20-7	
Diisopropyl ether	3.28	mg/kg	0.0329	0.0135	21	11/17/20 10:17	11/23/20 19:14	108-20-3	
Ethylbenzene	130	mg/kg	0.824	0.243	210	11/17/20 10:17	11/27/20 14:46	100-41-4	
Hexachloro-1,3-butadiene	<0.824	mg/kg	0.824	0.198	21	11/17/20 10:17	11/23/20 19:14	87-68-3	
Isopropylbenzene (Cumene)	13.6	mg/kg	0.0824	0.0140	21	11/17/20 10:17	11/23/20 19:14	98-82-8	
p-Isopropyltoluene	2.95	mg/kg	0.165	0.0839	21	11/17/20 10:17	11/23/20 19:14	99-87-6	
2-Butanone (MEK)	<3.29	mg/kg	3.29	2.09	21	11/17/20 10:17	11/23/20 19:14	78-93-3	
Methylene Chloride	<0.824	mg/kg	0.824	0.218	21	11/17/20 10:17	11/23/20 19:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.824	mg/kg	0.824	0.0752	21	11/17/20 10:17	11/23/20 19:14	108-10-1	
Methyl-tert-butyl ether	0.336	mg/kg	0.0329	0.0115	21	11/17/20 10:17	11/23/20 19:14	1634-04-4	
Naphthalene	32.8	mg/kg	0.413	0.160	21	11/17/20 10:17	11/23/20 19:14	91-20-3	C3
n-Propylbenzene	55.2	mg/kg	0.165	0.0312	21	11/17/20 10:17	11/23/20 19:14	103-65-1	
Styrene	<0.413	mg/kg	0.413	0.00755	21	11/17/20 10:17	11/23/20 19:14	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0824	mg/kg	0.0824	0.0312	21	11/17/20 10:17	11/23/20 19:14	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0824	mg/kg	0.0824	0.0229	21	11/17/20 10:17	11/23/20 19:14	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0824	mg/kg	0.0824	0.0248	21	11/17/20 10:17	11/23/20 19:14	76-13-1	
Tetrachloroethene	<0.0824	mg/kg	0.0824	0.0295	21	11/17/20 10:17	11/23/20 19:14	127-18-4	
Toluene	344	mg/kg	1.65	0.428	210	11/17/20 10:17	11/27/20 14:46	108-88-3	
1,2,3-Trichlorobenzene	<0.413	mg/kg	0.413	0.242	21	11/17/20 10:17	11/23/20 19:14	87-61-6	C4
1,2,4-Trichlorobenzene	<0.413	mg/kg	0.413	0.145	21	11/17/20 10:17	11/23/20 19:14	120-82-1	
1,1,1-Trichloroethane	<0.0824	mg/kg	0.0824	0.0304	21	11/17/20 10:17	11/23/20 19:14	71-55-6	
1,1,2-Trichloroethane	<0.0824	mg/kg	0.0824	0.0196	21	11/17/20 10:17	11/23/20 19:14	79-00-5	
Trichloroethene	<0.0329	mg/kg	0.0329	0.0193	21	11/17/20 10:17	11/23/20 19:14	79-01-6	
Trichlorofluoromethane	<0.0824	mg/kg	0.0824	0.0273	21	11/17/20 10:17	11/23/20 19:14	75-69-4	
1,2,3-Trichloropropane	<0.413	mg/kg	0.413	0.0533	21	11/17/20 10:17	11/23/20 19:14	96-18-4	
1,2,4-Trimethylbenzene	260	mg/kg	1.65	0.521	210	11/17/20 10:17	11/27/20 14:46	95-63-6	
1,2,3-Trimethylbenzene	79.7	mg/kg	1.65	0.521	210	11/17/20 10:17	11/27/20 14:46	526-73-8	
1,3,5-Trimethylbenzene	78.1	mg/kg	0.165	0.0659	21	11/17/20 10:17	11/23/20 19:14	108-67-8	
Vinyl chloride	<0.0824	mg/kg	0.0824	0.0383	21	11/17/20 10:17	11/23/20 19:14	75-01-4	
Xylene (Total)	705	mg/kg	2.15	0.290	210	11/17/20 10:17	11/27/20 14:46	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	114	%	75.0-131		21	11/17/20 10:17	11/23/20 19:14	2037-26-5	
Toluene-d8 (S)	109	%	75.0-131		210	11/17/20 10:17	11/27/20 14:46	2037-26-5	
4-Bromofluorobenzene (S)	101	%	67.0-138		21	11/17/20 10:17	11/23/20 19:14	460-00-4	
4-Bromofluorobenzene (S)	92.0	%	67.0-138		210	11/17/20 10:17	11/27/20 14:46	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70.0-130		21	11/17/20 10:17	11/23/20 19:14	17060-07-0	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130		210	11/17/20 10:17	11/27/20 14:46	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G    Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	77.5	%			1	11/25/20 05:49	11/25/20 05:57		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506678

**Sample: 250-E**      **Lab ID: 92506678009**      Collected: 11/17/20 13:53      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	13.0	mg/kg	7.93	2.65	1	11/17/20 13:53	11/27/20 10:25		
Aliphatic (C09-C12)	5.25J	mg/kg	7.93	2.65	1	11/17/20 13:53	11/27/20 10:25		J
Aromatic (C09-C10), Unadjusted	3.41J	mg/kg	7.93	2.65	1	11/17/20 13:53	11/27/20 10:25	TPHC9C10A	J
Total VPH	21.7	mg/kg	7.93	2.65	1	11/17/20 13:53	11/27/20 10:25	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	84.7	%	70.0-130		1	11/17/20 13:53	11/27/20 10:25	615-59-8FID	
2,5-Dibromotoluene (PID)	83.6	%	70.0-130		1	11/17/20 13:53	11/27/20 10:25	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	1.87	mg/kg	0.0875	0.0639	1.14	11/17/20 13:53	11/23/20 15:45	67-64-1	
Acrylonitrile	<0.0219	mg/kg	0.0219	0.00632	1.14	11/17/20 13:53	11/23/20 15:45	107-13-1	
Benzene	1.90	mg/kg	0.00175	0.000817	1.14	11/17/20 13:53	11/23/20 15:45	71-43-2	
Bromobenzene	<0.0219	mg/kg	0.0219	0.00158	1.14	11/17/20 13:53	11/23/20 15:45	108-86-1	
Bromodichloromethane	<0.00437	mg/kg	0.00437	0.00127	1.14	11/17/20 13:53	11/23/20 15:45	75-27-4	
Bromoform	<0.0437	mg/kg	0.0437	0.00204	1.14	11/17/20 13:53	11/23/20 15:45	75-25-2	
Bromomethane	<0.0219	mg/kg	0.0219	0.00345	1.14	11/17/20 13:53	11/23/20 15:45	74-83-9	
n-Butylbenzene	0.0101J	mg/kg	0.0219	0.00919	1.14	11/17/20 13:53	11/23/20 15:45	104-51-8	J
sec-Butylbenzene	<0.0219	mg/kg	0.0219	0.00503	1.14	11/17/20 13:53	11/23/20 15:45	135-98-8	
tert-Butylbenzene	<0.00875	mg/kg	0.00875	0.00341	1.14	11/17/20 13:53	11/23/20 15:45	98-06-6	
Carbon tetrachloride	<0.00875	mg/kg	0.00875	0.00157	1.14	11/17/20 13:53	11/23/20 15:45	56-23-5	
Chlorobenzene	<0.00437	mg/kg	0.00437	0.000367	1.14	11/17/20 13:53	11/23/20 15:45	108-90-7	
Dibromochloromethane	<0.00437	mg/kg	0.00437	0.00107	1.14	11/17/20 13:53	11/23/20 15:45	124-48-1	
Chloroethane	<0.00875	mg/kg	0.00875	0.00298	1.14	11/17/20 13:53	11/23/20 15:45	75-00-3	
Chloroform	<0.00437	mg/kg	0.00437	0.00180	1.14	11/17/20 13:53	11/23/20 15:45	67-66-3	
Chloromethane	<0.0219	mg/kg	0.0219	0.00761	1.14	11/17/20 13:53	11/23/20 15:45	74-87-3	
2-Chlorotoluene	<0.00437	mg/kg	0.00437	0.00151	1.14	11/17/20 13:53	11/23/20 15:45	95-49-8	
4-Chlorotoluene	<0.00875	mg/kg	0.00875	0.000787	1.14	11/17/20 13:53	11/23/20 15:45	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0437	mg/kg	0.0437	0.00683	1.14	11/17/20 13:53	11/23/20 15:45	96-12-8	
1,2-Dibromoethane (EDB)	<0.00437	mg/kg	0.00437	0.00113	1.14	11/17/20 13:53	11/23/20 15:45	106-93-4	
Dibromomethane	<0.00875	mg/kg	0.00875	0.00131	1.14	11/17/20 13:53	11/23/20 15:45	74-95-3	
1,2-Dichlorobenzene	<0.00875	mg/kg	0.00875	0.000744	1.14	11/17/20 13:53	11/23/20 15:45	95-50-1	
1,3-Dichlorobenzene	<0.00875	mg/kg	0.00875	0.00105	1.14	11/17/20 13:53	11/23/20 15:45	541-73-1	
1,4-Dichlorobenzene	<0.00875	mg/kg	0.00875	0.00122	1.14	11/17/20 13:53	11/23/20 15:45	106-46-7	
Dichlorodifluoromethane	<0.00437	mg/kg	0.00437	0.00282	1.14	11/17/20 13:53	11/23/20 15:45	75-71-8	
1,1-Dichloroethane	<0.00437	mg/kg	0.00437	0.000860	1.14	11/17/20 13:53	11/23/20 15:45	75-34-3	
1,2-Dichloroethane	<0.00437	mg/kg	0.00437	0.00114	1.14	11/17/20 13:53	11/23/20 15:45	107-06-2	
1,1-Dichloroethene	<0.00437	mg/kg	0.00437	0.00106	1.14	11/17/20 13:53	11/23/20 15:45	75-35-4	
cis-1,2-Dichloroethene	<0.00437	mg/kg	0.00437	0.00128	1.14	11/17/20 13:53	11/23/20 15:45	156-59-2	
trans-1,2-Dichloroethene	<0.00875	mg/kg	0.00875	0.00183	1.14	11/17/20 13:53	11/23/20 15:45	156-60-5	
1,2-Dichloropropane	<0.00875	mg/kg	0.00875	0.00249	1.14	11/17/20 13:53	11/23/20 15:45	78-87-5	
1,1-Dichloropropene	<0.00437	mg/kg	0.00437	0.00142	1.14	11/17/20 13:53	11/23/20 15:45	563-58-6	
1,3-Dichloropropane	<0.00875	mg/kg	0.00875	0.000876	1.14	11/17/20 13:53	11/23/20 15:45	142-28-9	
cis-1,3-Dichloropropene	<0.00437	mg/kg	0.00437	0.00132	1.14	11/17/20 13:53	11/23/20 15:45	10061-01-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 250-E**      **Lab ID: 92506678009**      Collected: 11/17/20 13:53      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00875	mg/kg	0.00875	0.00200	1.14	11/17/20 13:53	11/23/20 15:45	10061-02-6	
2,2-Dichloropropane	<0.00437	mg/kg	0.00437	0.00241	1.14	11/17/20 13:53	11/23/20 15:45	594-20-7	
Diisopropyl ether	0.106	mg/kg	0.00175	0.000717	1.14	11/17/20 13:53	11/23/20 15:45	108-20-3	
Ethylbenzene	0.571	mg/kg	0.00437	0.00129	1.14	11/17/20 13:53	11/23/20 15:45	100-41-4	
Hexachloro-1,3-butadiene	<0.0437	mg/kg	0.0437	0.0105	1.14	11/17/20 13:53	11/23/20 15:45	87-68-3	
Isopropylbenzene (Cumene)	0.0206	mg/kg	0.00437	0.000744	1.14	11/17/20 13:53	11/23/20 15:45	98-82-8	
p-Isopropyltoluene	<0.00875	mg/kg	0.00875	0.00447	1.14	11/17/20 13:53	11/23/20 15:45	99-87-6	
2-Butanone (MEK)	0.490	mg/kg	0.175	0.111	1.14	11/17/20 13:53	11/23/20 15:45	78-93-3	C5
Methylene Chloride	<0.0437	mg/kg	0.0437	0.0116	1.14	11/17/20 13:53	11/23/20 15:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0437	mg/kg	0.0437	0.00399	1.14	11/17/20 13:53	11/23/20 15:45	108-10-1	
Methyl-tert-butyl ether	0.0462	mg/kg	0.00175	0.000612	1.14	11/17/20 13:53	11/23/20 15:45	1634-04-4	
Naphthalene	0.146	mg/kg	0.0219	0.00853	1.14	11/17/20 13:53	11/23/20 15:45	91-20-3	C3
n-Propylbenzene	0.0832	mg/kg	0.00875	0.00166	1.14	11/17/20 13:53	11/23/20 15:45	103-65-1	
Styrene	<0.0219	mg/kg	0.0219	0.000401	1.14	11/17/20 13:53	11/23/20 15:45	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00437	mg/kg	0.00437	0.00166	1.14	11/17/20 13:53	11/23/20 15:45	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00437	mg/kg	0.00437	0.00122	1.14	11/17/20 13:53	11/23/20 15:45	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00437	mg/kg	0.00437	0.00132	1.14	11/17/20 13:53	11/23/20 15:45	76-13-1	
Tetrachloroethene	<0.00437	mg/kg	0.00437	0.00157	1.14	11/17/20 13:53	11/23/20 15:45	127-18-4	
Toluene	6.45	mg/kg	0.0700	0.0183	9.12	11/17/20 13:53	11/27/20 12:14	108-88-3	
1,2,3-Trichlorobenzene	<0.0219	mg/kg	0.0219	0.0128	1.14	11/17/20 13:53	11/23/20 15:45	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0219	mg/kg	0.0219	0.00771	1.14	11/17/20 13:53	11/23/20 15:45	120-82-1	
1,1,1-Trichloroethane	<0.00437	mg/kg	0.00437	0.00161	1.14	11/17/20 13:53	11/23/20 15:45	71-55-6	
1,1,2-Trichloroethane	<0.00437	mg/kg	0.00437	0.00105	1.14	11/17/20 13:53	11/23/20 15:45	79-00-5	
Trichloroethene	<0.00175	mg/kg	0.00175	0.00102	1.14	11/17/20 13:53	11/23/20 15:45	79-01-6	
Trichlorofluoromethane	<0.00437	mg/kg	0.00437	0.00145	1.14	11/17/20 13:53	11/23/20 15:45	75-69-4	
1,2,3-Trichloropropane	<0.0219	mg/kg	0.0219	0.00284	1.14	11/17/20 13:53	11/23/20 15:45	96-18-4	
1,2,4-Trimethylbenzene	0.743	mg/kg	0.00875	0.00276	1.14	11/17/20 13:53	11/23/20 15:45	95-63-6	
1,2,3-Trimethylbenzene	0.267	mg/kg	0.00875	0.00276	1.14	11/17/20 13:53	11/23/20 15:45	526-73-8	
1,3,5-Trimethylbenzene	0.190	mg/kg	0.00875	0.00350	1.14	11/17/20 13:53	11/23/20 15:45	108-67-8	
Vinyl chloride	<0.00437	mg/kg	0.00437	0.00203	1.14	11/17/20 13:53	11/23/20 15:45	75-01-4	
Xylene (Total)	3.45	mg/kg	0.0114	0.00153	1.14	11/17/20 13:53	11/23/20 15:45	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	114	%	75.0-131		1.14	11/17/20 13:53	11/23/20 15:45	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131		9.12	11/17/20 13:53	11/27/20 12:14	2037-26-5	
4-Bromofluorobenzene (S)	91.8	%	67.0-138		1.14	11/17/20 13:53	11/23/20 15:45	460-00-4	
4-Bromofluorobenzene (S)	96.6	%	67.0-138		9.12	11/17/20 13:53	11/27/20 12:14	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130		1.14	11/17/20 13:53	11/23/20 15:45	17060-07-0	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130		9.12	11/17/20 13:53	11/27/20 12:14	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G    Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	77.8	%			1	11/25/20 05:49	11/25/20 05:57		

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 275-W**      **Lab ID: 92506678010**      Collected: 11/17/20 10:26      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH      Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>409</b>	mg/kg	7.39	2.47	1	11/17/20 10:26	11/24/20 02:55		
Aliphatic (C09-C12)	<b>656</b>	mg/kg	7.39	2.47	1	11/17/20 10:26	11/24/20 02:55		
Aromatic (C09-C10), Unadjusted	<b>241</b>	mg/kg	29.6	9.84	4	11/17/20 10:26	11/27/20 14:15	TPHC9C10A	
Total VPH	<b>1070</b>	mg/kg	7.39	2.47	1	11/17/20 10:26	11/24/20 02:55	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	96.0	%	70.0-130		1	11/17/20 10:26	11/24/20 02:55	615-59-8FID	
2,5-Dibromotoluene (FID)	89.3	%	70.0-130		4	11/17/20 10:26	11/27/20 14:15	615-59-8FID	
2,5-Dibromotoluene (PID)	88.2	%	70.0-130		1	11/17/20 10:26	11/24/20 02:55	615-59-8PID	
2,5-Dibromotoluene (PID)	86.8	%	70.0-130		4	11/17/20 10:26	11/27/20 14:15	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D      Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<b>1.13</b>	mg/kg	0.0737	0.0538	1	11/17/20 10:26	11/23/20 16:05	67-64-1	
Acrylonitrile	<b>&lt;0.0184</b>	mg/kg	0.0184	0.00532	1	11/17/20 10:26	11/23/20 16:05	107-13-1	
Benzene	<b>1.33</b>	mg/kg	0.00147	0.000689	1	11/17/20 10:26	11/23/20 16:05	71-43-2	
Bromobenzene	<b>&lt;0.0184</b>	mg/kg	0.0184	0.00133	1	11/17/20 10:26	11/23/20 16:05	108-86-1	
Bromodichloromethane	<b>&lt;0.00369</b>	mg/kg	0.00369	0.00107	1	11/17/20 10:26	11/23/20 16:05	75-27-4	
Bromoform	<b>&lt;0.0369</b>	mg/kg	0.0369	0.00173	1	11/17/20 10:26	11/23/20 16:05	75-25-2	
Bromomethane	<b>&lt;0.0184</b>	mg/kg	0.0184	0.00290	1	11/17/20 10:26	11/23/20 16:05	74-83-9	
n-Butylbenzene	<b>0.0503</b>	mg/kg	0.0184	0.00774	1	11/17/20 10:26	11/23/20 16:05	104-51-8	
sec-Butylbenzene	<b>0.0181J</b>	mg/kg	0.0184	0.00425	1	11/17/20 10:26	11/23/20 16:05	135-98-8	J
tert-Butylbenzene	<b>&lt;0.00737</b>	mg/kg	0.00737	0.00288	1	11/17/20 10:26	11/23/20 16:05	98-06-6	
Carbon tetrachloride	<b>&lt;0.00737</b>	mg/kg	0.00737	0.00132	1	11/17/20 10:26	11/23/20 16:05	56-23-5	
Chlorobenzene	<b>&lt;0.00369</b>	mg/kg	0.00369	0.000310	1	11/17/20 10:26	11/23/20 16:05	108-90-7	
Dibromochloromethane	<b>&lt;0.00369</b>	mg/kg	0.00369	0.000902	1	11/17/20 10:26	11/23/20 16:05	124-48-1	
Chloroethane	<b>&lt;0.00737</b>	mg/kg	0.00737	0.00251	1	11/17/20 10:26	11/23/20 16:05	75-00-3	
Chloroform	<b>&lt;0.00369</b>	mg/kg	0.00369	0.00152	1	11/17/20 10:26	11/23/20 16:05	67-66-3	
Chloromethane	<b>&lt;0.0184</b>	mg/kg	0.0184	0.00641	1	11/17/20 10:26	11/23/20 16:05	74-87-3	
2-Chlorotoluene	<b>&lt;0.00369</b>	mg/kg	0.00369	0.00128	1	11/17/20 10:26	11/23/20 16:05	95-49-8	
4-Chlorotoluene	<b>&lt;0.00737</b>	mg/kg	0.00737	0.000663	1	11/17/20 10:26	11/23/20 16:05	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0369</b>	mg/kg	0.0369	0.00575	1	11/17/20 10:26	11/23/20 16:05	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00369</b>	mg/kg	0.00369	0.000955	1	11/17/20 10:26	11/23/20 16:05	106-93-4	
Dibromomethane	<b>&lt;0.00737</b>	mg/kg	0.00737	0.00111	1	11/17/20 10:26	11/23/20 16:05	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00737</b>	mg/kg	0.00737	0.000627	1	11/17/20 10:26	11/23/20 16:05	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00737</b>	mg/kg	0.00737	0.000885	1	11/17/20 10:26	11/23/20 16:05	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00737</b>	mg/kg	0.00737	0.00103	1	11/17/20 10:26	11/23/20 16:05	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00369</b>	mg/kg	0.00369	0.00237	1	11/17/20 10:26	11/23/20 16:05	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00369</b>	mg/kg	0.00369	0.000724	1	11/17/20 10:26	11/23/20 16:05	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00369</b>	mg/kg	0.00369	0.000957	1	11/17/20 10:26	11/23/20 16:05	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00369</b>	mg/kg	0.00369	0.000893	1	11/17/20 10:26	11/23/20 16:05	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.00369</b>	mg/kg	0.00369	0.00108	1	11/17/20 10:26	11/23/20 16:05	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00737</b>	mg/kg	0.00737	0.00153	1	11/17/20 10:26	11/23/20 16:05	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00737</b>	mg/kg	0.00737	0.00209	1	11/17/20 10:26	11/23/20 16:05	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00369</b>	mg/kg	0.00369	0.00119	1	11/17/20 10:26	11/23/20 16:05	563-58-6	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 275-W**      **Lab ID: 92506678010**      Collected: 11/17/20 10:26      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.00737	mg/kg	0.00737	0.000739	1	11/17/20 10:26	11/23/20 16:05	142-28-9	
cis-1,3-Dichloropropene	<0.00369	mg/kg	0.00369	0.00112	1	11/17/20 10:26	11/23/20 16:05	10061-01-5	
trans-1,3-Dichloropropene	<0.00737	mg/kg	0.00737	0.00168	1	11/17/20 10:26	11/23/20 16:05	10061-02-6	
2,2-Dichloropropane	<0.00369	mg/kg	0.00369	0.00203	1	11/17/20 10:26	11/23/20 16:05	594-20-7	
Diisopropyl ether	0.273	mg/kg	0.00147	0.000604	1	11/17/20 10:26	11/23/20 16:05	108-20-3	
Ethylbenzene	0.820	mg/kg	0.00369	0.00109	1	11/17/20 10:26	11/23/20 16:05	100-41-4	
Hexachloro-1,3-butadiene	<0.0369	mg/kg	0.0369	0.00885	1	11/17/20 10:26	11/23/20 16:05	87-68-3	
Isopropylbenzene (Cumene)	0.0450	mg/kg	0.00369	0.000627	1	11/17/20 10:26	11/23/20 16:05	98-82-8	
p-Isopropyltoluene	0.0113	mg/kg	0.00737	0.00376	1	11/17/20 10:26	11/23/20 16:05	99-87-6	
2-Butanone (MEK)	0.428	mg/kg	0.147	0.0936	1	11/17/20 10:26	11/23/20 16:05	78-93-3	C5
Methylene Chloride	<0.0369	mg/kg	0.0369	0.00979	1	11/17/20 10:26	11/23/20 16:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0369	mg/kg	0.0369	0.00336	1	11/17/20 10:26	11/23/20 16:05	108-10-1	
Methyl-tert-butyl ether	0.0826	mg/kg	0.00147	0.000516	1	11/17/20 10:26	11/23/20 16:05	1634-04-4	
Naphthalene	0.400	mg/kg	0.0184	0.00719	1	11/17/20 10:26	11/23/20 16:05	91-20-3	C3
n-Propylbenzene	0.226	mg/kg	0.00737	0.00140	1	11/17/20 10:26	11/23/20 16:05	103-65-1	
Styrene	<0.0184	mg/kg	0.0184	0.000338	1	11/17/20 10:26	11/23/20 16:05	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00369	mg/kg	0.00369	0.00140	1	11/17/20 10:26	11/23/20 16:05	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00369	mg/kg	0.00369	0.00102	1	11/17/20 10:26	11/23/20 16:05	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00369	mg/kg	0.00369	0.00111	1	11/17/20 10:26	11/23/20 16:05	76-13-1	
Tetrachloroethene	<0.00369	mg/kg	0.00369	0.00132	1	11/17/20 10:26	11/23/20 16:05	127-18-4	
Toluene	6.22	mg/kg	0.0590	0.0153	8	11/17/20 10:26	11/27/20 15:06	108-88-3	
1,2,3-Trichlorobenzene	<0.0184	mg/kg	0.0184	0.0108	1	11/17/20 10:26	11/23/20 16:05	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0184	mg/kg	0.0184	0.00649	1	11/17/20 10:26	11/23/20 16:05	120-82-1	
1,1,1-Trichloroethane	<0.00369	mg/kg	0.00369	0.00136	1	11/17/20 10:26	11/23/20 16:05	71-55-6	
1,1,2-Trichloroethane	<0.00369	mg/kg	0.00369	0.000880	1	11/17/20 10:26	11/23/20 16:05	79-00-5	
Trichloroethene	<0.00147	mg/kg	0.00147	0.000861	1	11/17/20 10:26	11/23/20 16:05	79-01-6	
Trichlorofluoromethane	<0.00369	mg/kg	0.00369	0.00122	1	11/17/20 10:26	11/23/20 16:05	75-69-4	
1,2,3-Trichloropropane	<0.0184	mg/kg	0.0184	0.00239	1	11/17/20 10:26	11/23/20 16:05	96-18-4	
1,2,4-Trimethylbenzene	1.58	mg/kg	0.00737	0.00233	1	11/17/20 10:26	11/23/20 16:05	95-63-6	
1,2,3-Trimethylbenzene	0.548	mg/kg	0.00737	0.00233	1	11/17/20 10:26	11/23/20 16:05	526-73-8	
1,3,5-Trimethylbenzene	0.416	mg/kg	0.00737	0.00295	1	11/17/20 10:26	11/23/20 16:05	108-67-8	
Vinyl chloride	<0.00369	mg/kg	0.00369	0.00171	1	11/17/20 10:26	11/23/20 16:05	75-01-4	
Xylene (Total)	4.61	mg/kg	0.00958	0.00130	1	11/17/20 10:26	11/23/20 16:05	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		1	11/17/20 10:26	11/23/20 16:05	2037-26-5	
Toluene-d8 (S)	107	%	75.0-131		8	11/17/20 10:26	11/27/20 15:06	2037-26-5	
4-Bromofluorobenzene (S)	90.1	%	67.0-138		1	11/17/20 10:26	11/23/20 16:05	460-00-4	
4-Bromofluorobenzene (S)	92.2	%	67.0-138		8	11/17/20 10:26	11/27/20 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130		1	11/17/20 10:26	11/23/20 16:05	17060-07-0	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130		8	11/17/20 10:26	11/27/20 15:06	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	80.8	%			1	11/25/20 05:49	11/25/20 05:57		
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 275-B**      **Lab ID: 92506678011**      Collected: 11/17/20 10:31      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	2660	mg/kg	41.3	13.8	5	11/17/20 10:31	11/24/20 03:28		
Aliphatic (C09-C12)	1230	mg/kg	41.3	13.8	5	11/17/20 10:31	11/24/20 03:28		
Aromatic (C09-C10), Unadjusted	636	mg/kg	41.3	13.8	5	11/17/20 10:31	11/24/20 03:28	TPHC9C10A	
Total VPH	4530	mg/kg	41.3	13.8	5	11/17/20 10:31	11/24/20 03:28	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	91.3	%	70.0-130		5	11/17/20 10:31	11/24/20 03:28	615-59-8FID	
2,5-Dibromotoluene (PID)	86.7	%	70.0-130		5	11/17/20 10:31	11/24/20 03:28	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<1.66	mg/kg	1.66	1.21	20	11/17/20 10:31	11/23/20 19:33	67-64-1	
Acrylonitrile	<0.416	mg/kg	0.416	0.120	20	11/17/20 10:31	11/23/20 19:33	107-13-1	
Benzene	28.6	mg/kg	0.0333	0.0155	20	11/17/20 10:31	11/23/20 19:33	71-43-2	
Bromobenzene	<0.416	mg/kg	0.416	0.0300	20	11/17/20 10:31	11/23/20 19:33	108-86-1	
Bromodichloromethane	<0.0832	mg/kg	0.0832	0.0241	20	11/17/20 10:31	11/23/20 19:33	75-27-4	
Bromoform	<0.832	mg/kg	0.832	0.0389	20	11/17/20 10:31	11/23/20 19:33	75-25-2	
Bromomethane	<0.416	mg/kg	0.416	0.0656	20	11/17/20 10:31	11/23/20 19:33	74-83-9	
n-Butylbenzene	11.9	mg/kg	0.416	0.175	20	11/17/20 10:31	11/23/20 19:33	104-51-8	
sec-Butylbenzene	4.03	mg/kg	0.416	0.0959	20	11/17/20 10:31	11/23/20 19:33	135-98-8	
tert-Butylbenzene	<0.166	mg/kg	0.166	0.0649	20	11/17/20 10:31	11/23/20 19:33	98-06-6	
Carbon tetrachloride	<0.166	mg/kg	0.166	0.0300	20	11/17/20 10:31	11/23/20 19:33	56-23-5	
Chlorobenzene	<0.0832	mg/kg	0.0832	0.00699	20	11/17/20 10:31	11/23/20 19:33	108-90-7	
Dibromochloromethane	<0.0832	mg/kg	0.0832	0.0203	20	11/17/20 10:31	11/23/20 19:33	124-48-1	
Chloroethane	<0.166	mg/kg	0.166	0.0566	20	11/17/20 10:31	11/23/20 19:33	75-00-3	
Chloroform	<0.0832	mg/kg	0.0832	0.0343	20	11/17/20 10:31	11/23/20 19:33	67-66-3	
Chloromethane	<0.416	mg/kg	0.416	0.145	20	11/17/20 10:31	11/23/20 19:33	74-87-3	
2-Chlorotoluene	<0.0832	mg/kg	0.0832	0.0288	20	11/17/20 10:31	11/23/20 19:33	95-49-8	
4-Chlorotoluene	<0.166	mg/kg	0.166	0.0150	20	11/17/20 10:31	11/23/20 19:33	106-43-4	
1,2-Dibromo-3-chloropropane	<0.832	mg/kg	0.832	0.130	20	11/17/20 10:31	11/23/20 19:33	96-12-8	
1,2-Dibromoethane (EDB)	<0.0832	mg/kg	0.0832	0.0216	20	11/17/20 10:31	11/23/20 19:33	106-93-4	
Dibromomethane	<0.166	mg/kg	0.166	0.0250	20	11/17/20 10:31	11/23/20 19:33	74-95-3	
1,2-Dichlorobenzene	<0.166	mg/kg	0.166	0.0141	20	11/17/20 10:31	11/23/20 19:33	95-50-1	
1,3-Dichlorobenzene	<0.166	mg/kg	0.166	0.0200	20	11/17/20 10:31	11/23/20 19:33	541-73-1	
1,4-Dichlorobenzene	<0.166	mg/kg	0.166	0.0233	20	11/17/20 10:31	11/23/20 19:33	106-46-7	
Dichlorodifluoromethane	<0.0832	mg/kg	0.0832	0.0536	20	11/17/20 10:31	11/23/20 19:33	75-71-8	
1,1-Dichloroethane	<0.0832	mg/kg	0.0832	0.0163	20	11/17/20 10:31	11/23/20 19:33	75-34-3	
1,2-Dichloroethane	<0.0832	mg/kg	0.0832	0.0216	20	11/17/20 10:31	11/23/20 19:33	107-06-2	
1,1-Dichloroethene	<0.0832	mg/kg	0.0832	0.0201	20	11/17/20 10:31	11/23/20 19:33	75-35-4	
cis-1,2-Dichloroethene	<0.0832	mg/kg	0.0832	0.0245	20	11/17/20 10:31	11/23/20 19:33	156-59-2	
trans-1,2-Dichloroethene	<0.166	mg/kg	0.166	0.0346	20	11/17/20 10:31	11/23/20 19:33	156-60-5	
1,2-Dichloropropane	<0.166	mg/kg	0.166	0.0473	20	11/17/20 10:31	11/23/20 19:33	78-87-5	
1,1-Dichloropropene	<0.0832	mg/kg	0.0832	0.0270	20	11/17/20 10:31	11/23/20 19:33	563-58-6	
1,3-Dichloropropane	<0.166	mg/kg	0.166	0.0166	20	11/17/20 10:31	11/23/20 19:33	142-28-9	
cis-1,3-Dichloropropene	<0.0832	mg/kg	0.0832	0.0251	20	11/17/20 10:31	11/23/20 19:33	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 275-B**      **Lab ID: 92506678011**      Collected: 11/17/20 10:31      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.166	mg/kg	0.166	0.0379	20	11/17/20 10:31	11/23/20 19:33	10061-02-6	
2,2-Dichloropropane	<0.0832	mg/kg	0.0832	0.0459	20	11/17/20 10:31	11/23/20 19:33	594-20-7	
Diisopropyl ether	0.519	mg/kg	0.0333	0.0136	20	11/17/20 10:31	11/23/20 19:33	108-20-3	
Ethylbenzene	86.2	mg/kg	0.832	0.245	200	11/17/20 10:31	11/27/20 15:24	100-41-4	
Hexachloro-1,3-butadiene	<0.832	mg/kg	0.832	0.200	20	11/17/20 10:31	11/23/20 19:33	87-68-3	
Isopropylbenzene (Cumene)	10.6	mg/kg	0.0832	0.0141	20	11/17/20 10:31	11/23/20 19:33	98-82-8	
p-Isopropyltoluene	2.43	mg/kg	0.166	0.0849	20	11/17/20 10:31	11/23/20 19:33	99-87-6	
2-Butanone (MEK)	<3.33	mg/kg	3.33	2.11	20	11/17/20 10:31	11/23/20 19:33	78-93-3	
Methylene Chloride	<0.832	mg/kg	0.832	0.221	20	11/17/20 10:31	11/23/20 19:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.832	mg/kg	0.832	0.0759	20	11/17/20 10:31	11/23/20 19:33	108-10-1	
Methyl-tert-butyl ether	0.0419	mg/kg	0.0333	0.0116	20	11/17/20 10:31	11/23/20 19:33	1634-04-4	
Naphthalene	23.0	mg/kg	0.416	0.162	20	11/17/20 10:31	11/23/20 19:33	91-20-3	C3
n-Propylbenzene	53.6	mg/kg	0.166	0.0316	20	11/17/20 10:31	11/23/20 19:33	103-65-1	
Styrene	<0.416	mg/kg	0.416	0.00762	20	11/17/20 10:31	11/23/20 19:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0832	mg/kg	0.0832	0.0316	20	11/17/20 10:31	11/23/20 19:33	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0832	mg/kg	0.0832	0.0231	20	11/17/20 10:31	11/23/20 19:33	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0832	mg/kg	0.0832	0.0251	20	11/17/20 10:31	11/23/20 19:33	76-13-1	
Tetrachloroethene	<0.0832	mg/kg	0.0832	0.0298	20	11/17/20 10:31	11/23/20 19:33	127-18-4	
Toluene	285	mg/kg	1.66	0.433	200	11/17/20 10:31	11/27/20 15:24	108-88-3	
1,2,3-Trichlorobenzene	<0.416	mg/kg	0.416	0.245	20	11/17/20 10:31	11/23/20 19:33	87-61-6	C4
1,2,4-Trichlorobenzene	<0.416	mg/kg	0.416	0.146	20	11/17/20 10:31	11/23/20 19:33	120-82-1	
1,1,1-Trichloroethane	<0.0832	mg/kg	0.0832	0.0308	20	11/17/20 10:31	11/23/20 19:33	71-55-6	
1,1,2-Trichloroethane	<0.0832	mg/kg	0.0832	0.0198	20	11/17/20 10:31	11/23/20 19:33	79-00-5	
Trichloroethene	<0.0333	mg/kg	0.0333	0.0195	20	11/17/20 10:31	11/23/20 19:33	79-01-6	
Trichlorofluoromethane	<0.0832	mg/kg	0.0832	0.0275	20	11/17/20 10:31	11/23/20 19:33	75-69-4	
1,2,3-Trichloropropane	<0.416	mg/kg	0.416	0.0539	20	11/17/20 10:31	11/23/20 19:33	96-18-4	
1,2,4-Trimethylbenzene	243	mg/kg	1.66	0.526	200	11/17/20 10:31	11/27/20 15:24	95-63-6	
1,2,3-Trimethylbenzene	75.1	mg/kg	0.166	0.0526	20	11/17/20 10:31	11/23/20 19:33	526-73-8	
1,3,5-Trimethylbenzene	72.6	mg/kg	1.66	0.666	200	11/17/20 10:31	11/27/20 15:24	108-67-8	
Vinyl chloride	<0.0832	mg/kg	0.0832	0.0386	20	11/17/20 10:31	11/23/20 19:33	75-01-4	
Xylene (Total)	469	mg/kg	2.16	0.293	200	11/17/20 10:31	11/27/20 15:24	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	107	%	75.0-131		20	11/17/20 10:31	11/23/20 19:33	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131		200	11/17/20 10:31	11/27/20 15:24	2037-26-5	
4-Bromofluorobenzene (S)	100	%	67.0-138		20	11/17/20 10:31	11/23/20 19:33	460-00-4	
4-Bromofluorobenzene (S)	95.0	%	67.0-138		200	11/17/20 10:31	11/27/20 15:24	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70.0-130		20	11/17/20 10:31	11/23/20 19:33	17060-07-0	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130		200	11/17/20 10:31	11/27/20 15:24	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G    Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	76.1	%			1	11/25/20 05:49	11/25/20 05:57		

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506678

**Sample: 275-E**      **Lab ID: 92506678012**      Collected: 11/17/20 13:59      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>10.6</b>	mg/kg	8.19	2.74	1	11/17/20 13:59	11/24/20 04:01		
Aliphatic (C09-C12)	<b>7.65J</b>	mg/kg	8.19	2.74	1	11/17/20 13:59	11/24/20 04:01		J
Aromatic (C09-C10), Unadjusted	<b>4.10J</b>	mg/kg	8.19	2.74	1	11/17/20 13:59	11/24/20 04:01	TPHC9C10A	J
Total VPH	<b>22.3</b>	mg/kg	8.19	2.74	1	11/17/20 13:59	11/24/20 04:01	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	86.4	%	70.0-130		1	11/17/20 13:59	11/24/20 04:01	615-59-8FID	
2,5-Dibromotoluene (PID)	80.9	%	70.0-130		1	11/17/20 13:59	11/24/20 04:01	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<b>0.0871</b>	mg/kg	0.0852	0.0622	1.06	11/17/20 13:59	11/23/20 16:24	67-64-1	
Acrylonitrile	<b>&lt;0.0214</b>	mg/kg	0.0214	0.00616	1.06	11/17/20 13:59	11/23/20 16:24	107-13-1	
Benzene	<b>1.08</b>	mg/kg	0.00170	0.000796	1.06	11/17/20 13:59	11/23/20 16:24	71-43-2	
Bromobenzene	<b>&lt;0.0214</b>	mg/kg	0.0214	0.00153	1.06	11/17/20 13:59	11/23/20 16:24	108-86-1	
Bromodichloromethane	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00124	1.06	11/17/20 13:59	11/23/20 16:24	75-27-4	
Bromoform	<b>&lt;0.0426</b>	mg/kg	0.0426	0.00199	1.06	11/17/20 13:59	11/23/20 16:24	75-25-2	
Bromomethane	<b>&lt;0.0214</b>	mg/kg	0.0214	0.00336	1.06	11/17/20 13:59	11/23/20 16:24	74-83-9	
n-Butylbenzene	<b>&lt;0.0214</b>	mg/kg	0.0214	0.00894	1.06	11/17/20 13:59	11/23/20 16:24	104-51-8	
sec-Butylbenzene	<b>&lt;0.0214</b>	mg/kg	0.0214	0.00490	1.06	11/17/20 13:59	11/23/20 16:24	135-98-8	
tert-Butylbenzene	<b>&lt;0.00852</b>	mg/kg	0.00852	0.00333	1.06	11/17/20 13:59	11/23/20 16:24	98-06-6	
Carbon tetrachloride	<b>&lt;0.00852</b>	mg/kg	0.00852	0.00153	1.06	11/17/20 13:59	11/23/20 16:24	56-23-5	
Chlorobenzene	<b>&lt;0.00426</b>	mg/kg	0.00426	0.000358	1.06	11/17/20 13:59	11/23/20 16:24	108-90-7	
Dibromochloromethane	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00104	1.06	11/17/20 13:59	11/23/20 16:24	124-48-1	
Chloroethane	<b>&lt;0.00852</b>	mg/kg	0.00852	0.00289	1.06	11/17/20 13:59	11/23/20 16:24	75-00-3	
Chloroform	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00175	1.06	11/17/20 13:59	11/23/20 16:24	67-66-3	
Chloromethane	<b>&lt;0.0214</b>	mg/kg	0.0214	0.00741	1.06	11/17/20 13:59	11/23/20 16:24	74-87-3	
2-Chlorotoluene	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00147	1.06	11/17/20 13:59	11/23/20 16:24	95-49-8	
4-Chlorotoluene	<b>&lt;0.00852</b>	mg/kg	0.00852	0.000767	1.06	11/17/20 13:59	11/23/20 16:24	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0426</b>	mg/kg	0.0426	0.00664	1.06	11/17/20 13:59	11/23/20 16:24	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00110	1.06	11/17/20 13:59	11/23/20 16:24	106-93-4	
Dibromomethane	<b>&lt;0.00852</b>	mg/kg	0.00852	0.00128	1.06	11/17/20 13:59	11/23/20 16:24	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00852</b>	mg/kg	0.00852	0.000725	1.06	11/17/20 13:59	11/23/20 16:24	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00852</b>	mg/kg	0.00852	0.00102	1.06	11/17/20 13:59	11/23/20 16:24	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00852</b>	mg/kg	0.00852	0.00119	1.06	11/17/20 13:59	11/23/20 16:24	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00275	1.06	11/17/20 13:59	11/23/20 16:24	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00426</b>	mg/kg	0.00426	0.000836	1.06	11/17/20 13:59	11/23/20 16:24	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00111	1.06	11/17/20 13:59	11/23/20 16:24	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00103	1.06	11/17/20 13:59	11/23/20 16:24	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00125	1.06	11/17/20 13:59	11/23/20 16:24	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00852</b>	mg/kg	0.00852	0.00177	1.06	11/17/20 13:59	11/23/20 16:24	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00852</b>	mg/kg	0.00852	0.00243	1.06	11/17/20 13:59	11/23/20 16:24	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00138	1.06	11/17/20 13:59	11/23/20 16:24	563-58-6	
1,3-Dichloropropane	<b>&lt;0.00852</b>	mg/kg	0.00852	0.000853	1.06	11/17/20 13:59	11/23/20 16:24	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.00426</b>	mg/kg	0.00426	0.00129	1.06	11/17/20 13:59	11/23/20 16:24	10061-01-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

Sample: 275-E Lab ID: 92506678012 Collected: 11/17/20 13:59 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00852	mg/kg	0.00852	0.00194	1.06	11/17/20 13:59	11/23/20 16:24	10061-02-6	
2,2-Dichloropropane	<0.00426	mg/kg	0.00426	0.00235	1.06	11/17/20 13:59	11/23/20 16:24	594-20-7	
Diisopropyl ether	0.0553	mg/kg	0.00170	0.000699	1.06	11/17/20 13:59	11/23/20 16:24	108-20-3	
Ethylbenzene	0.0657	mg/kg	0.00426	0.00126	1.06	11/17/20 13:59	11/23/20 16:24	100-41-4	
Hexachloro-1,3-butadiene	<0.0426	mg/kg	0.0426	0.0102	1.06	11/17/20 13:59	11/23/20 16:24	87-68-3	
Isopropylbenzene (Cumene)	0.00294J	mg/kg	0.00426	0.000725	1.06	11/17/20 13:59	11/23/20 16:24	98-82-8	J
p-Isopropyltoluene	<0.00852	mg/kg	0.00852	0.00434	1.06	11/17/20 13:59	11/23/20 16:24	99-87-6	
2-Butanone (MEK)	<0.170	mg/kg	0.170	0.108	1.06	11/17/20 13:59	11/23/20 16:24	78-93-3	
Methylene Chloride	<0.0426	mg/kg	0.0426	0.0113	1.06	11/17/20 13:59	11/23/20 16:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0426	mg/kg	0.0426	0.00389	1.06	11/17/20 13:59	11/23/20 16:24	108-10-1	
Methyl-tert-butyl ether	0.00911	mg/kg	0.00170	0.000596	1.06	11/17/20 13:59	11/23/20 16:24	1634-04-4	
Naphthalene	0.0349	mg/kg	0.0214	0.00831	1.06	11/17/20 13:59	11/23/20 16:24	91-20-3	C3
n-Propylbenzene	0.00673J	mg/kg	0.00852	0.00162	1.06	11/17/20 13:59	11/23/20 16:24	103-65-1	J
Styrene	<0.0214	mg/kg	0.0214	0.000391	1.06	11/17/20 13:59	11/23/20 16:24	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00426	mg/kg	0.00426	0.00161	1.06	11/17/20 13:59	11/23/20 16:24	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00426	mg/kg	0.00426	0.00118	1.06	11/17/20 13:59	11/23/20 16:24	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00426	mg/kg	0.00426	0.00128	1.06	11/17/20 13:59	11/23/20 16:24	76-13-1	
Tetrachloroethene	<0.00426	mg/kg	0.00426	0.00153	1.06	11/17/20 13:59	11/23/20 16:24	127-18-4	
Toluene	2.86	mg/kg	0.00852	0.00222	1.06	11/17/20 13:59	11/23/20 16:24	108-88-3	
1,2,3-Trichlorobenzene	<0.0214	mg/kg	0.0214	0.0125	1.06	11/17/20 13:59	11/23/20 16:24	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0214	mg/kg	0.0214	0.00749	1.06	11/17/20 13:59	11/23/20 16:24	120-82-1	
1,1,1-Trichloroethane	<0.00426	mg/kg	0.00426	0.00157	1.06	11/17/20 13:59	11/23/20 16:24	71-55-6	
1,1,2-Trichloroethane	<0.00426	mg/kg	0.00426	0.00102	1.06	11/17/20 13:59	11/23/20 16:24	79-00-5	
Trichloroethene	<0.00170	mg/kg	0.00170	0.000995	1.06	11/17/20 13:59	11/23/20 16:24	79-01-6	
Trichlorofluoromethane	<0.00426	mg/kg	0.00426	0.00141	1.06	11/17/20 13:59	11/23/20 16:24	75-69-4	
1,2,3-Trichloropropane	<0.0214	mg/kg	0.0214	0.00276	1.06	11/17/20 13:59	11/23/20 16:24	96-18-4	
1,2,4-Trimethylbenzene	0.461	mg/kg	0.00852	0.00268	1.06	11/17/20 13:59	11/23/20 16:24	95-63-6	
1,2,3-Trimethylbenzene	0.159	mg/kg	0.00852	0.00268	1.06	11/17/20 13:59	11/23/20 16:24	526-73-8	
1,3,5-Trimethylbenzene	0.134	mg/kg	0.00852	0.00341	1.06	11/17/20 13:59	11/23/20 16:24	108-67-8	
Vinyl chloride	<0.00426	mg/kg	0.00426	0.00198	1.06	11/17/20 13:59	11/23/20 16:24	75-01-4	
Xylene (Total)	2.67	mg/kg	0.0111	0.00150	1.06	11/17/20 13:59	11/23/20 16:24	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	112	%	75.0-131		1.06	11/17/20 13:59	11/23/20 16:24	2037-26-5	
4-Bromofluorobenzene (S)	87.2	%	67.0-138		1.06	11/17/20 13:59	11/23/20 16:24	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130		1.06	11/17/20 13:59	11/23/20 16:24	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids 76.2 % 1 11/25/20 05:35 11/25/20 05:43

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 300-W**      **Lab ID: 92506678013**      Collected: 11/17/20 10:40      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	11.8	mg/kg	7.77	2.60	1	11/17/20 10:40	11/24/20 04:34		
Aliphatic (C09-C12)	5.66J	mg/kg	7.77	2.60	1	11/17/20 10:40	11/24/20 04:34		J
Aromatic (C09-C10), Unadjusted	2.89J	mg/kg	7.77	2.60	1	11/17/20 10:40	11/24/20 04:34	TPHC9C10A	J
Total VPH	20.3	mg/kg	7.77	2.60	1	11/17/20 10:40	11/24/20 04:34	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	87.7	%	70.0-130		1	11/17/20 10:40	11/24/20 04:34	615-59-8FID	
2,5-Dibromotoluene (PID)	83.1	%	70.0-130		1	11/17/20 10:40	11/24/20 04:34	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	0.119	mg/kg	0.0792	0.0578	1	11/17/20 10:40	11/23/20 16:43	67-64-1	
Acrylonitrile	<0.0198	mg/kg	0.0198	0.00572	1	11/17/20 10:40	11/23/20 16:43	107-13-1	
Benzene	1.30	mg/kg	0.00158	0.000739	1	11/17/20 10:40	11/23/20 16:43	71-43-2	
Bromobenzene	<0.0198	mg/kg	0.0198	0.00142	1	11/17/20 10:40	11/23/20 16:43	108-86-1	
Bromodichloromethane	<0.00396	mg/kg	0.00396	0.00115	1	11/17/20 10:40	11/23/20 16:43	75-27-4	
Bromoform	<0.0396	mg/kg	0.0396	0.00185	1	11/17/20 10:40	11/23/20 16:43	75-25-2	
Bromomethane	<0.0198	mg/kg	0.0198	0.00312	1	11/17/20 10:40	11/23/20 16:43	74-83-9	
n-Butylbenzene	<0.0198	mg/kg	0.0198	0.00831	1	11/17/20 10:40	11/23/20 16:43	104-51-8	
sec-Butylbenzene	<0.0198	mg/kg	0.0198	0.00456	1	11/17/20 10:40	11/23/20 16:43	135-98-8	
tert-Butylbenzene	<0.00792	mg/kg	0.00792	0.00309	1	11/17/20 10:40	11/23/20 16:43	98-06-6	
Carbon tetrachloride	<0.00792	mg/kg	0.00792	0.00142	1	11/17/20 10:40	11/23/20 16:43	56-23-5	
Chlorobenzene	<0.00396	mg/kg	0.00396	0.000332	1	11/17/20 10:40	11/23/20 16:43	108-90-7	
Dibromochloromethane	<0.00396	mg/kg	0.00396	0.000969	1	11/17/20 10:40	11/23/20 16:43	124-48-1	
Chloroethane	<0.00792	mg/kg	0.00792	0.00269	1	11/17/20 10:40	11/23/20 16:43	75-00-3	
Chloroform	<0.00396	mg/kg	0.00396	0.00163	1	11/17/20 10:40	11/23/20 16:43	67-66-3	
Chloromethane	<0.0198	mg/kg	0.0198	0.00689	1	11/17/20 10:40	11/23/20 16:43	74-87-3	
2-Chlorotoluene	<0.00396	mg/kg	0.00396	0.00137	1	11/17/20 10:40	11/23/20 16:43	95-49-8	
4-Chlorotoluene	<0.00792	mg/kg	0.00792	0.000712	1	11/17/20 10:40	11/23/20 16:43	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0396	mg/kg	0.0396	0.00617	1	11/17/20 10:40	11/23/20 16:43	96-12-8	
1,2-Dibromoethane (EDB)	<0.00396	mg/kg	0.00396	0.00103	1	11/17/20 10:40	11/23/20 16:43	106-93-4	
Dibromomethane	<0.00792	mg/kg	0.00792	0.00119	1	11/17/20 10:40	11/23/20 16:43	74-95-3	
1,2-Dichlorobenzene	<0.00792	mg/kg	0.00792	0.000673	1	11/17/20 10:40	11/23/20 16:43	95-50-1	
1,3-Dichlorobenzene	<0.00792	mg/kg	0.00792	0.000950	1	11/17/20 10:40	11/23/20 16:43	541-73-1	
1,4-Dichlorobenzene	<0.00792	mg/kg	0.00792	0.00111	1	11/17/20 10:40	11/23/20 16:43	106-46-7	
Dichlorodifluoromethane	<0.00396	mg/kg	0.00396	0.00255	1	11/17/20 10:40	11/23/20 16:43	75-71-8	
1,1-Dichloroethane	<0.00396	mg/kg	0.00396	0.000777	1	11/17/20 10:40	11/23/20 16:43	75-34-3	
1,2-Dichloroethane	<0.00396	mg/kg	0.00396	0.00103	1	11/17/20 10:40	11/23/20 16:43	107-06-2	
1,1-Dichloroethene	<0.00396	mg/kg	0.00396	0.000959	1	11/17/20 10:40	11/23/20 16:43	75-35-4	
cis-1,2-Dichloroethene	<0.00396	mg/kg	0.00396	0.00116	1	11/17/20 10:40	11/23/20 16:43	156-59-2	
trans-1,2-Dichloroethene	<0.00792	mg/kg	0.00792	0.00165	1	11/17/20 10:40	11/23/20 16:43	156-60-5	
1,2-Dichloropropane	<0.00792	mg/kg	0.00792	0.00225	1	11/17/20 10:40	11/23/20 16:43	78-87-5	
1,1-Dichloropropene	<0.00396	mg/kg	0.00396	0.00128	1	11/17/20 10:40	11/23/20 16:43	563-58-6	
1,3-Dichloropropane	<0.00792	mg/kg	0.00792	0.000793	1	11/17/20 10:40	11/23/20 16:43	142-28-9	
cis-1,3-Dichloropropene	<0.00396	mg/kg	0.00396	0.00120	1	11/17/20 10:40	11/23/20 16:43	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 300-W**      **Lab ID: 92506678013**      Collected: 11/17/20 10:40      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00792	mg/kg	0.00792	0.00180	1	11/17/20 10:40	11/23/20 16:43	10061-02-6	
2,2-Dichloropropane	<0.00396	mg/kg	0.00396	0.00218	1	11/17/20 10:40	11/23/20 16:43	594-20-7	
Diisopropyl ether	0.302	mg/kg	0.00158	0.000649	1	11/17/20 10:40	11/23/20 16:43	108-20-3	
Ethylbenzene	0.407	mg/kg	0.00396	0.00117	1	11/17/20 10:40	11/23/20 16:43	100-41-4	
Hexachloro-1,3-butadiene	<0.0396	mg/kg	0.0396	0.00950	1	11/17/20 10:40	11/23/20 16:43	87-68-3	
Isopropylbenzene (Cumene)	0.0110	mg/kg	0.00396	0.000673	1	11/17/20 10:40	11/23/20 16:43	98-82-8	
p-Isopropyltoluene	<0.00792	mg/kg	0.00792	0.00404	1	11/17/20 10:40	11/23/20 16:43	99-87-6	
2-Butanone (MEK)	<0.158	mg/kg	0.158	0.101	1	11/17/20 10:40	11/23/20 16:43	78-93-3	
Methylene Chloride	<0.0396	mg/kg	0.0396	0.0105	1	11/17/20 10:40	11/23/20 16:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0396	mg/kg	0.0396	0.00361	1	11/17/20 10:40	11/23/20 16:43	108-10-1	
Methyl-tert-butyl ether	0.0942	mg/kg	0.00158	0.000554	1	11/17/20 10:40	11/23/20 16:43	1634-04-4	
Naphthalene	0.0750	mg/kg	0.0198	0.00773	1	11/17/20 10:40	11/23/20 16:43	91-20-3	C3
n-Propylbenzene	0.0344	mg/kg	0.00792	0.00150	1	11/17/20 10:40	11/23/20 16:43	103-65-1	
Styrene	<0.0198	mg/kg	0.0198	0.000363	1	11/17/20 10:40	11/23/20 16:43	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00396	mg/kg	0.00396	0.00150	1	11/17/20 10:40	11/23/20 16:43	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00396	mg/kg	0.00396	0.00110	1	11/17/20 10:40	11/23/20 16:43	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00396	mg/kg	0.00396	0.00119	1	11/17/20 10:40	11/23/20 16:43	76-13-1	
Tetrachloroethene	<0.00396	mg/kg	0.00396	0.00142	1	11/17/20 10:40	11/23/20 16:43	127-18-4	
Toluene	4.34	mg/kg	0.0633	0.0165	8	11/17/20 10:40	11/27/20 15:43	108-88-3	
1,2,3-Trichlorobenzene	<0.0198	mg/kg	0.0198	0.0116	1	11/17/20 10:40	11/23/20 16:43	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0198	mg/kg	0.0198	0.00697	1	11/17/20 10:40	11/23/20 16:43	120-82-1	
1,1,1-Trichloroethane	<0.00396	mg/kg	0.00396	0.00146	1	11/17/20 10:40	11/23/20 16:43	71-55-6	
1,1,2-Trichloroethane	<0.00396	mg/kg	0.00396	0.000945	1	11/17/20 10:40	11/23/20 16:43	79-00-5	
Trichloroethene	<0.00158	mg/kg	0.00158	0.000925	1	11/17/20 10:40	11/23/20 16:43	79-01-6	
Trichlorofluoromethane	<0.00396	mg/kg	0.00396	0.00131	1	11/17/20 10:40	11/23/20 16:43	75-69-4	
1,2,3-Trichloropropane	<0.0198	mg/kg	0.0198	0.00256	1	11/17/20 10:40	11/23/20 16:43	96-18-4	
1,2,4-Trimethylbenzene	0.402	mg/kg	0.00792	0.00250	1	11/17/20 10:40	11/23/20 16:43	95-63-6	
1,2,3-Trimethylbenzene	0.155	mg/kg	0.00792	0.00250	1	11/17/20 10:40	11/23/20 16:43	526-73-8	
1,3,5-Trimethylbenzene	0.0959	mg/kg	0.00792	0.00317	1	11/17/20 10:40	11/23/20 16:43	108-67-8	
Vinyl chloride	<0.00396	mg/kg	0.00396	0.00184	1	11/17/20 10:40	11/23/20 16:43	75-01-4	
Xylene (Total)	2.71	mg/kg	0.0103	0.00139	1	11/17/20 10:40	11/23/20 16:43	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		1	11/17/20 10:40	11/23/20 16:43	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131		8	11/17/20 10:40	11/27/20 15:43	2037-26-5	
4-Bromofluorobenzene (S)	91.8	%	67.0-138		1	11/17/20 10:40	11/23/20 16:43	460-00-4	
4-Bromofluorobenzene (S)	94.5	%	67.0-138		8	11/17/20 10:40	11/27/20 15:43	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70.0-130		1	11/17/20 10:40	11/23/20 16:43	17060-07-0	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130		8	11/17/20 10:40	11/27/20 15:43	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G    Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	78.8	%			1	11/25/20 05:35	11/25/20 05:43		

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

Sample: 300-B Lab ID: 92506678014 Collected: 11/17/20 10:43 Received: 11/18/20 09:17 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>MADEPV</b>									
Analytical Method: MADEPV VPH Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	16.9	mg/kg	7.91	2.64	1	11/17/20 10:43	11/27/20 10:58		
Aliphatic (C09-C12)	2.85J	mg/kg	7.91	2.64	1	11/17/20 10:43	11/27/20 10:58		J
Aromatic (C09-C10), Unadjusted	<0.391	mg/kg	7.91	2.64	1	11/17/20 10:43	11/27/20 10:58	TPHC9C10A	
Total VPH	19.8	mg/kg	7.91	2.64	1	11/17/20 10:43	11/27/20 10:58	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	91.2	%	70.0-130		1	11/17/20 10:43	11/27/20 10:58	615-59-8FID	
2,5-Dibromotoluene (PID)	91.7	%	70.0-130		1	11/17/20 10:43	11/27/20 10:58	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<1.58	mg/kg	1.58	1.16	20	11/17/20 10:43	11/23/20 19:52	67-64-1	R1
Acrylonitrile	<0.396	mg/kg	0.396	0.114	20	11/17/20 10:43	11/23/20 19:52	107-13-1	
Benzene	0.342	mg/kg	0.0317	0.0148	20	11/17/20 10:43	11/23/20 19:52	71-43-2	
Bromobenzene	<0.396	mg/kg	0.396	0.0285	20	11/17/20 10:43	11/23/20 19:52	108-86-1	
Bromodichloromethane	<0.0792	mg/kg	0.0792	0.0230	20	11/17/20 10:43	11/23/20 19:52	75-27-4	
Bromoform	<0.792	mg/kg	0.792	0.0371	20	11/17/20 10:43	11/23/20 19:52	75-25-2	
Bromomethane	<0.396	mg/kg	0.396	0.0624	20	11/17/20 10:43	11/23/20 19:52	74-83-9	
n-Butylbenzene	0.250J	mg/kg	0.396	0.166	20	11/17/20 10:43	11/23/20 19:52	104-51-8	J
sec-Butylbenzene	<0.396	mg/kg	0.396	0.0913	20	11/17/20 10:43	11/23/20 19:52	135-98-8	
tert-Butylbenzene	<0.158	mg/kg	0.158	0.0618	20	11/17/20 10:43	11/23/20 19:52	98-06-6	
Carbon tetrachloride	<0.158	mg/kg	0.158	0.0285	20	11/17/20 10:43	11/23/20 19:52	56-23-5	
Chlorobenzene	<0.0792	mg/kg	0.0792	0.00666	20	11/17/20 10:43	11/23/20 19:52	108-90-7	
Dibromochloromethane	<0.0792	mg/kg	0.0792	0.0193	20	11/17/20 10:43	11/23/20 19:52	124-48-1	
Chloroethane	<0.158	mg/kg	0.158	0.0539	20	11/17/20 10:43	11/23/20 19:52	75-00-3	
Chloroform	<0.0792	mg/kg	0.0792	0.0326	20	11/17/20 10:43	11/23/20 19:52	67-66-3	
Chloromethane	<0.396	mg/kg	0.396	0.138	20	11/17/20 10:43	11/23/20 19:52	74-87-3	
2-Chlorotoluene	<0.0792	mg/kg	0.0792	0.0274	20	11/17/20 10:43	11/23/20 19:52	95-49-8	
4-Chlorotoluene	<0.158	mg/kg	0.158	0.0143	20	11/17/20 10:43	11/23/20 19:52	106-43-4	
1,2-Dibromo-3-chloropropane	<0.792	mg/kg	0.792	0.124	20	11/17/20 10:43	11/23/20 19:52	96-12-8	
1,2-Dibromoethane (EDB)	<0.0792	mg/kg	0.0792	0.0206	20	11/17/20 10:43	11/23/20 19:52	106-93-4	
Dibromomethane	<0.158	mg/kg	0.158	0.0238	20	11/17/20 10:43	11/23/20 19:52	74-95-3	
1,2-Dichlorobenzene	<0.158	mg/kg	0.158	0.0135	20	11/17/20 10:43	11/23/20 19:52	95-50-1	
1,3-Dichlorobenzene	<0.158	mg/kg	0.158	0.0190	20	11/17/20 10:43	11/23/20 19:52	541-73-1	
1,4-Dichlorobenzene	<0.158	mg/kg	0.158	0.0222	20	11/17/20 10:43	11/23/20 19:52	106-46-7	
Dichlorodifluoromethane	<0.0792	mg/kg	0.0792	0.0510	20	11/17/20 10:43	11/23/20 19:52	75-71-8	
1,1-Dichloroethane	<0.0792	mg/kg	0.0792	0.0156	20	11/17/20 10:43	11/23/20 19:52	75-34-3	
1,2-Dichloroethane	<0.0792	mg/kg	0.0792	0.0206	20	11/17/20 10:43	11/23/20 19:52	107-06-2	
1,1-Dichloroethene	<0.0792	mg/kg	0.0792	0.0192	20	11/17/20 10:43	11/23/20 19:52	75-35-4	
cis-1,2-Dichloroethene	<0.0792	mg/kg	0.0792	0.0233	20	11/17/20 10:43	11/23/20 19:52	156-59-2	
trans-1,2-Dichloroethene	<0.158	mg/kg	0.158	0.0330	20	11/17/20 10:43	11/23/20 19:52	156-60-5	
1,2-Dichloropropane	<0.158	mg/kg	0.158	0.0450	20	11/17/20 10:43	11/23/20 19:52	78-87-5	
1,1-Dichloropropene	<0.0792	mg/kg	0.0792	0.0257	20	11/17/20 10:43	11/23/20 19:52	563-58-6	
1,3-Dichloropropane	<0.158	mg/kg	0.158	0.0158	20	11/17/20 10:43	11/23/20 19:52	142-28-9	
cis-1,3-Dichloropropene	<0.0792	mg/kg	0.0792	0.0239	20	11/17/20 10:43	11/23/20 19:52	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506678

**Sample: 300-B** Lab ID: **92506678014** Collected: 11/17/20 10:43 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.158	mg/kg	0.158	0.0361	20	11/17/20 10:43	11/23/20 19:52	10061-02-6	
2,2-Dichloropropane	<0.0792	mg/kg	0.0792	0.0437	20	11/17/20 10:43	11/23/20 19:52	594-20-7	
Diisopropyl ether	<0.0317	mg/kg	0.0317	0.0130	20	11/17/20 10:43	11/23/20 19:52	108-20-3	
Ethylbenzene	<0.0791	mg/kg	0.0791	0.0232	20	11/17/20 10:43	11/27/20 12:33	100-41-4	
Hexachloro-1,3-butadiene	<0.792	mg/kg	0.792	0.190	20	11/17/20 10:43	11/23/20 19:52	87-68-3	
Isopropylbenzene (Cumene)	0.0769J	mg/kg	0.0792	0.0135	20	11/17/20 10:43	11/23/20 19:52	98-82-8	J
p-Isopropyltoluene	<0.158	mg/kg	0.158	0.0808	20	11/17/20 10:43	11/23/20 19:52	99-87-6	
2-Butanone (MEK)	<3.17	mg/kg	3.17	2.01	20	11/17/20 10:43	11/23/20 19:52	78-93-3	
Methylene Chloride	<0.792	mg/kg	0.792	0.211	20	11/17/20 10:43	11/23/20 19:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.792	mg/kg	0.792	0.0723	20	11/17/20 10:43	11/23/20 19:52	108-10-1	
Methyl-tert-butyl ether	<0.0317	mg/kg	0.0317	0.0111	20	11/17/20 10:43	11/23/20 19:52	1634-04-4	
Naphthalene	1.70	mg/kg	0.396	0.155	20	11/17/20 10:43	11/23/20 19:52	91-20-3	C3
n-Propylbenzene	0.121J	mg/kg	0.158	0.0300	20	11/17/20 10:43	11/27/20 12:33	103-65-1	J
Styrene	<0.396	mg/kg	0.396	0.00726	20	11/17/20 10:43	11/23/20 19:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.0792	mg/kg	0.0792	0.0301	20	11/17/20 10:43	11/23/20 19:52	630-20-6	
1,1,2,2-Tetrachloroethane	<0.0792	mg/kg	0.0792	0.0220	20	11/17/20 10:43	11/23/20 19:52	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.0792	mg/kg	0.0792	0.0239	20	11/17/20 10:43	11/23/20 19:52	76-13-1	
Tetrachloroethene	<0.0792	mg/kg	0.0792	0.0284	20	11/17/20 10:43	11/23/20 19:52	127-18-4	
Toluene	0.720	mg/kg	0.158	0.0411	20	11/17/20 10:43	11/27/20 12:33	108-88-3	
1,2,3-Trichlorobenzene	<0.396	mg/kg	0.396	0.233	20	11/17/20 10:43	11/23/20 19:52	87-61-6	C4
1,2,4-Trichlorobenzene	<0.396	mg/kg	0.396	0.139	20	11/17/20 10:43	11/23/20 19:52	120-82-1	
1,1,1-Trichloroethane	<0.0792	mg/kg	0.0792	0.0293	20	11/17/20 10:43	11/23/20 19:52	71-55-6	
1,1,2-Trichloroethane	<0.0792	mg/kg	0.0792	0.0189	20	11/17/20 10:43	11/23/20 19:52	79-00-5	
Trichloroethene	<0.0317	mg/kg	0.0317	0.0185	20	11/17/20 10:43	11/23/20 19:52	79-01-6	
Trichlorofluoromethane	<0.0792	mg/kg	0.0792	0.0261	20	11/17/20 10:43	11/23/20 19:52	75-69-4	
1,2,3-Trichloropropane	<0.396	mg/kg	0.396	0.0513	20	11/17/20 10:43	11/23/20 19:52	96-18-4	
1,2,4-Trimethylbenzene	0.738	mg/kg	0.158	0.0500	20	11/17/20 10:43	11/27/20 12:33	95-63-6	
1,2,3-Trimethylbenzene	0.190	mg/kg	0.158	0.0500	20	11/17/20 10:43	11/27/20 12:33	526-73-8	
1,3,5-Trimethylbenzene	0.231	mg/kg	0.158	0.0633	20	11/17/20 10:43	11/27/20 12:33	108-67-8	
Vinyl chloride	<0.0792	mg/kg	0.0792	0.0368	20	11/17/20 10:43	11/23/20 19:52	75-01-4	
Xylene (Total)	0.402	mg/kg	0.206	0.0278	20	11/17/20 10:43	11/27/20 12:33	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	104	%	75.0-131		20	11/17/20 10:43	11/23/20 19:52	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131		20	11/17/20 10:43	11/27/20 12:33	2037-26-5	
4-Bromofluorobenzene (S)	97.8	%	67.0-138		20	11/17/20 10:43	11/23/20 19:52	460-00-4	
4-Bromofluorobenzene (S)	91.8	%	67.0-138		20	11/17/20 10:43	11/27/20 12:33	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70.0-130		20	11/17/20 10:43	11/23/20 19:52	17060-07-0	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130		20	11/17/20 10:43	11/27/20 12:33	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	78.4	%			1	11/25/20 05:35	11/25/20 05:43		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506678

**Sample: 300-E**      **Lab ID: 92506678015**      Collected: 11/17/20 14:04      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEP VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>4.77J</b>	mg/kg	10.7	3.55	1.42	11/17/20 14:04	12/01/20 09:19		J
Aliphatic (C09-C12)	<b>3.86J</b>	mg/kg	10.7	3.55	1.42	11/17/20 14:04	12/01/20 09:19		J
Aromatic (C09-C10), Unadjusted	<b>&lt;10.7</b>	mg/kg	10.7	3.55	1.42	11/17/20 14:04	11/24/20 16:28	TPHC9C10A	
Total VPH	<b>8.63J</b>	mg/kg	10.7	3.55	1.42	11/17/20 14:04	12/01/20 09:19	VPH	J
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	82.4	%	70.0-130		1.42	11/17/20 14:04	11/24/20 16:28	615-59-8FID	
2,5-Dibromotoluene (FID)	94.0	%	70.0-130		1.42	11/17/20 14:04	12/01/20 09:19	615-59-8FID	
2,5-Dibromotoluene (PID)	79.7	%	70.0-130		1.42	11/17/20 14:04	11/24/20 16:28	615-59-8PID	
2,5-Dibromotoluene (PID)	89.8	%	70.0-130		1.42	11/17/20 14:04	12/01/20 09:19	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<b>0.0656J</b>	mg/kg	0.0873	0.0638	1.12	11/17/20 14:04	11/23/20 17:01	67-64-1	J
Acrylonitrile	<b>&lt;0.0218</b>	mg/kg	0.0218	0.00630	1.12	11/17/20 14:04	11/23/20 17:01	107-13-1	
Benzene	<b>0.550</b>	mg/kg	0.00175	0.000815	1.12	11/17/20 14:04	11/23/20 17:01	71-43-2	
Bromobenzene	<b>&lt;0.0218</b>	mg/kg	0.0218	0.00157	1.12	11/17/20 14:04	11/23/20 17:01	108-86-1	
Bromodichloromethane	<b>&lt;0.00437</b>	mg/kg	0.00437	0.00127	1.12	11/17/20 14:04	11/23/20 17:01	75-27-4	
Bromoform	<b>&lt;0.0437</b>	mg/kg	0.0437	0.00204	1.12	11/17/20 14:04	11/23/20 17:01	75-25-2	
Bromomethane	<b>&lt;0.0218</b>	mg/kg	0.0218	0.00345	1.12	11/17/20 14:04	11/23/20 17:01	74-83-9	
n-Butylbenzene	<b>&lt;0.0218</b>	mg/kg	0.0218	0.00917	1.12	11/17/20 14:04	11/23/20 17:01	104-51-8	
sec-Butylbenzene	<b>&lt;0.0218</b>	mg/kg	0.0218	0.00504	1.12	11/17/20 14:04	11/23/20 17:01	135-98-8	
tert-Butylbenzene	<b>&lt;0.00873</b>	mg/kg	0.00873	0.00340	1.12	11/17/20 14:04	11/23/20 17:01	98-06-6	
Carbon tetrachloride	<b>&lt;0.00873</b>	mg/kg	0.00873	0.00157	1.12	11/17/20 14:04	11/23/20 17:01	56-23-5	
Chlorobenzene	<b>&lt;0.00437</b>	mg/kg	0.00437	0.000366	1.12	11/17/20 14:04	11/23/20 17:01	108-90-7	
Dibromochloromethane	<b>&lt;0.00437</b>	mg/kg	0.00437	0.00107	1.12	11/17/20 14:04	11/23/20 17:01	124-48-1	
Chloroethane	<b>&lt;0.00873</b>	mg/kg	0.00873	0.00296	1.12	11/17/20 14:04	11/23/20 17:01	75-00-3	
Chloroform	<b>&lt;0.00437</b>	mg/kg	0.00437	0.00179	1.12	11/17/20 14:04	11/23/20 17:01	67-66-3	
Chloromethane	<b>&lt;0.0218</b>	mg/kg	0.0218	0.00759	1.12	11/17/20 14:04	11/23/20 17:01	74-87-3	
2-Chlorotoluene	<b>&lt;0.00437</b>	mg/kg	0.00437	0.00151	1.12	11/17/20 14:04	11/23/20 17:01	95-49-8	
4-Chlorotoluene	<b>&lt;0.00873</b>	mg/kg	0.00873	0.000786	1.12	11/17/20 14:04	11/23/20 17:01	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0437</b>	mg/kg	0.0437	0.00681	1.12	11/17/20 14:04	11/23/20 17:01	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00437</b>	mg/kg	0.00437	0.00113	1.12	11/17/20 14:04	11/23/20 17:01	106-93-4	
Dibromomethane	<b>&lt;0.00873</b>	mg/kg	0.00873	0.00131	1.12	11/17/20 14:04	11/23/20 17:01	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00873</b>	mg/kg	0.00873	0.000742	1.12	11/17/20 14:04	11/23/20 17:01	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00873</b>	mg/kg	0.00873	0.00105	1.12	11/17/20 14:04	11/23/20 17:01	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00873</b>	mg/kg	0.00873	0.00122	1.12	11/17/20 14:04	11/23/20 17:01	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00437</b>	mg/kg	0.00437	0.00281	1.12	11/17/20 14:04	11/23/20 17:01	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00437</b>	mg/kg	0.00437	0.000857	1.12	11/17/20 14:04	11/23/20 17:01	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00437</b>	mg/kg	0.00437	0.00113	1.12	11/17/20 14:04	11/23/20 17:01	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00437</b>	mg/kg	0.00437	0.00106	1.12	11/17/20 14:04	11/23/20 17:01	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.00437</b>	mg/kg	0.00437	0.00128	1.12	11/17/20 14:04	11/23/20 17:01	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00873</b>	mg/kg	0.00873	0.00181	1.12	11/17/20 14:04	11/23/20 17:01	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00873</b>	mg/kg	0.00873	0.00248	1.12	11/17/20 14:04	11/23/20 17:01	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00437</b>	mg/kg	0.00437	0.00141	1.12	11/17/20 14:04	11/23/20 17:01	563-58-6	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 300-E**      **Lab ID: 92506678015**      Collected: 11/17/20 14:04      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
1,3-Dichloropropane	<0.00873	mg/kg	0.00873	0.000875	1.12	11/17/20 14:04	11/23/20 17:01	142-28-9	
cis-1,3-Dichloropropene	<0.00437	mg/kg	0.00437	0.00132	1.12	11/17/20 14:04	11/23/20 17:01	10061-01-5	
trans-1,3-Dichloropropene	<0.00873	mg/kg	0.00873	0.00200	1.12	11/17/20 14:04	11/23/20 17:01	10061-02-6	
2,2-Dichloropropane	<0.00437	mg/kg	0.00437	0.00242	1.12	11/17/20 14:04	11/23/20 17:01	594-20-7	
Diisopropyl ether	0.0207	mg/kg	0.00175	0.000716	1.12	11/17/20 14:04	11/23/20 17:01	108-20-3	
Ethylbenzene	0.0232	mg/kg	0.00437	0.00129	1.12	11/17/20 14:04	11/23/20 17:01	100-41-4	
Hexachloro-1,3-butadiene	<0.0437	mg/kg	0.0437	0.0105	1.12	11/17/20 14:04	11/23/20 17:01	87-68-3	
Isopropylbenzene (Cumene)	0.000917J	mg/kg	0.00437	0.000742	1.12	11/17/20 14:04	11/23/20 17:01	98-82-8	J
p-Isopropyltoluene	<0.00873	mg/kg	0.00873	0.00446	1.12	11/17/20 14:04	11/23/20 17:01	99-87-6	
2-Butanone (MEK)	<0.175	mg/kg	0.175	0.111	1.12	11/17/20 14:04	11/23/20 17:01	78-93-3	
Methylene Chloride	<0.0437	mg/kg	0.0437	0.0116	1.12	11/17/20 14:04	11/23/20 17:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0437	mg/kg	0.0437	0.00398	1.12	11/17/20 14:04	11/23/20 17:01	108-10-1	
Methyl-tert-butyl ether	0.00327	mg/kg	0.00175	0.000611	1.12	11/17/20 14:04	11/23/20 17:01	1634-04-4	
Naphthalene	<0.0218	mg/kg	0.0218	0.00853	1.12	11/17/20 14:04	11/23/20 17:01	91-20-3	C3
n-Propylbenzene	<0.00873	mg/kg	0.00873	0.00165	1.12	11/17/20 14:04	11/23/20 17:01	103-65-1	
Styrene	<0.0218	mg/kg	0.0218	0.000399	1.12	11/17/20 14:04	11/23/20 17:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00437	mg/kg	0.00437	0.00165	1.12	11/17/20 14:04	11/23/20 17:01	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00437	mg/kg	0.00437	0.00121	1.12	11/17/20 14:04	11/23/20 17:01	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00437	mg/kg	0.00437	0.00132	1.12	11/17/20 14:04	11/23/20 17:01	76-13-1	
Tetrachloroethene	<0.00437	mg/kg	0.00437	0.00156	1.12	11/17/20 14:04	11/23/20 17:01	127-18-4	
Toluene	1.39	mg/kg	0.00873	0.00228	1.12	11/17/20 14:04	11/23/20 17:01	108-88-3	
1,2,3-Trichlorobenzene	<0.0218	mg/kg	0.0218	0.0128	1.12	11/17/20 14:04	11/23/20 17:01	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0218	mg/kg	0.0218	0.00769	1.12	11/17/20 14:04	11/23/20 17:01	120-82-1	
1,1,1-Trichloroethane	<0.00437	mg/kg	0.00437	0.00161	1.12	11/17/20 14:04	11/23/20 17:01	71-55-6	
1,1,2-Trichloroethane	<0.00437	mg/kg	0.00437	0.00104	1.12	11/17/20 14:04	11/23/20 17:01	79-00-5	
Trichloroethene	<0.00175	mg/kg	0.00175	0.00102	1.12	11/17/20 14:04	11/23/20 17:01	79-01-6	
Trichlorofluoromethane	<0.00437	mg/kg	0.00437	0.00144	1.12	11/17/20 14:04	11/23/20 17:01	75-69-4	
1,2,3-Trichloropropane	<0.0218	mg/kg	0.0218	0.00282	1.12	11/17/20 14:04	11/23/20 17:01	96-18-4	
1,2,4-Trimethylbenzene	0.0619	mg/kg	0.00873	0.00276	1.12	11/17/20 14:04	11/23/20 17:01	95-63-6	
1,2,3-Trimethylbenzene	0.0190	mg/kg	0.00873	0.00276	1.12	11/17/20 14:04	11/23/20 17:01	526-73-8	
1,3,5-Trimethylbenzene	0.0193	mg/kg	0.00873	0.00349	1.12	11/17/20 14:04	11/23/20 17:01	108-67-8	
Vinyl chloride	<0.00437	mg/kg	0.00437	0.00203	1.12	11/17/20 14:04	11/23/20 17:01	75-01-4	
Xylene (Total)	0.508	mg/kg	0.0113	0.00154	1.12	11/17/20 14:04	11/23/20 17:01	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	113	%	75.0-131		1.12	11/17/20 14:04	11/23/20 17:01	2037-26-5	
4-Bromofluorobenzene (S)	91.4	%	67.0-138		1.12	11/17/20 14:04	11/23/20 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130		1.12	11/17/20 14:04	11/23/20 17:01	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	77.2	%			1	11/25/20 05:35	11/25/20 05:43		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 325-W**      **Lab ID: 92506678016**      Collected: 11/17/20 11:07      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	11.1	mg/kg	7.59	2.54	1	11/17/20 11:07	11/24/20 17:01		
Aliphatic (C09-C12)	5.62J	mg/kg	7.59	2.54	1	11/17/20 11:07	11/24/20 17:01		J
Aromatic (C09-C10), Unadjusted	3.87J	mg/kg	7.59	2.54	1	11/17/20 11:07	11/24/20 17:01	TPHC9C10A	J
Total VPH	20.7	mg/kg	7.59	2.54	1	11/17/20 11:07	11/24/20 17:01	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	83.0	%	70.0-130		1	11/17/20 11:07	11/24/20 17:01	615-59-8FID	
2,5-Dibromotoluene (PID)	79.5	%	70.0-130		1	11/17/20 11:07	11/24/20 17:01	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<0.0769	mg/kg	0.0769	0.0561	1.02	11/17/20 11:07	11/23/20 23:21	67-64-1	
Acrylonitrile	<0.0193	mg/kg	0.0193	0.00555	1.02	11/17/20 11:07	11/23/20 23:21	107-13-1	
Benzene	1.08	mg/kg	0.00154	0.000718	1.02	11/17/20 11:07	11/23/20 23:21	71-43-2	
Bromobenzene	<0.0193	mg/kg	0.0193	0.00138	1.02	11/17/20 11:07	11/23/20 23:21	108-86-1	
Bromodichloromethane	<0.00384	mg/kg	0.00384	0.00111	1.02	11/17/20 11:07	11/23/20 23:21	75-27-4	
Bromoform	<0.0384	mg/kg	0.0384	0.00179	1.02	11/17/20 11:07	11/23/20 23:21	75-25-2	
Bromomethane	<0.0193	mg/kg	0.0193	0.00303	1.02	11/17/20 11:07	11/23/20 23:21	74-83-9	
n-Butylbenzene	0.00819J	mg/kg	0.0193	0.00807	1.02	11/17/20 11:07	11/23/20 23:21	104-51-8	J
sec-Butylbenzene	<0.0193	mg/kg	0.0193	0.00443	1.02	11/17/20 11:07	11/23/20 23:21	135-98-8	
tert-Butylbenzene	<0.00769	mg/kg	0.00769	0.00300	1.02	11/17/20 11:07	11/23/20 23:21	98-06-6	
Carbon tetrachloride	<0.00769	mg/kg	0.00769	0.00138	1.02	11/17/20 11:07	11/23/20 23:21	56-23-5	
Chlorobenzene	<0.00384	mg/kg	0.00384	0.000323	1.02	11/17/20 11:07	11/23/20 23:21	108-90-7	
Dibromochloromethane	<0.00384	mg/kg	0.00384	0.000941	1.02	11/17/20 11:07	11/23/20 23:21	124-48-1	
Chloroethane	<0.00769	mg/kg	0.00769	0.00261	1.02	11/17/20 11:07	11/23/20 23:21	75-00-3	
Chloroform	<0.00384	mg/kg	0.00384	0.00158	1.02	11/17/20 11:07	11/23/20 23:21	67-66-3	
Chloromethane	<0.0193	mg/kg	0.0193	0.00669	1.02	11/17/20 11:07	11/23/20 23:21	74-87-3	
2-Chlorotoluene	<0.00384	mg/kg	0.00384	0.00133	1.02	11/17/20 11:07	11/23/20 23:21	95-49-8	
4-Chlorotoluene	<0.00769	mg/kg	0.00769	0.000692	1.02	11/17/20 11:07	11/23/20 23:21	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0384	mg/kg	0.0384	0.00600	1.02	11/17/20 11:07	11/23/20 23:21	96-12-8	
1,2-Dibromoethane (EDB)	<0.00384	mg/kg	0.00384	0.000996	1.02	11/17/20 11:07	11/23/20 23:21	106-93-4	
Dibromomethane	<0.00769	mg/kg	0.00769	0.00115	1.02	11/17/20 11:07	11/23/20 23:21	74-95-3	
1,2-Dichlorobenzene	<0.00769	mg/kg	0.00769	0.000653	1.02	11/17/20 11:07	11/23/20 23:21	95-50-1	
1,3-Dichlorobenzene	<0.00769	mg/kg	0.00769	0.000923	1.02	11/17/20 11:07	11/23/20 23:21	541-73-1	
1,4-Dichlorobenzene	<0.00769	mg/kg	0.00769	0.00108	1.02	11/17/20 11:07	11/23/20 23:21	106-46-7	
Dichlorodifluoromethane	<0.00384	mg/kg	0.00384	0.00247	1.02	11/17/20 11:07	11/23/20 23:21	75-71-8	
1,1-Dichloroethane	<0.00384	mg/kg	0.00384	0.000755	1.02	11/17/20 11:07	11/23/20 23:21	75-34-3	
1,2-Dichloroethane	<0.00384	mg/kg	0.00384	0.000998	1.02	11/17/20 11:07	11/23/20 23:21	107-06-2	
1,1-Dichloroethene	<0.00384	mg/kg	0.00384	0.000932	1.02	11/17/20 11:07	11/23/20 23:21	75-35-4	
cis-1,2-Dichloroethene	<0.00384	mg/kg	0.00384	0.00113	1.02	11/17/20 11:07	11/23/20 23:21	156-59-2	
trans-1,2-Dichloroethene	<0.00769	mg/kg	0.00769	0.00160	1.02	11/17/20 11:07	11/23/20 23:21	156-60-5	
1,2-Dichloropropane	<0.00769	mg/kg	0.00769	0.00219	1.02	11/17/20 11:07	11/23/20 23:21	78-87-5	
1,1-Dichloropropene	<0.00384	mg/kg	0.00384	0.00124	1.02	11/17/20 11:07	11/23/20 23:21	563-58-6	
1,3-Dichloropropane	<0.00769	mg/kg	0.00769	0.000770	1.02	11/17/20 11:07	11/23/20 23:21	142-28-9	
cis-1,3-Dichloropropene	<0.00384	mg/kg	0.00384	0.00116	1.02	11/17/20 11:07	11/23/20 23:21	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

Sample: 325-W Lab ID: 92506678016 Collected: 11/17/20 11:07 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00769	mg/kg	0.00769	0.00175	1.02	11/17/20 11:07	11/23/20 23:21	10061-02-6	
2,2-Dichloropropane	<0.00384	mg/kg	0.00384	0.00213	1.02	11/17/20 11:07	11/23/20 23:21	594-20-7	
Diisopropyl ether	0.0787	mg/kg	0.00154	0.000630	1.02	11/17/20 11:07	11/23/20 23:21	108-20-3	
Ethylbenzene	0.210	mg/kg	0.00384	0.00113	1.02	11/17/20 11:07	11/23/20 23:21	100-41-4	
Hexachloro-1,3-butadiene	<0.0384	mg/kg	0.0384	0.00923	1.02	11/17/20 11:07	11/23/20 23:21	87-68-3	
Isopropylbenzene (Cumene)	0.00781	mg/kg	0.00384	0.000653	1.02	11/17/20 11:07	11/23/20 23:21	98-82-8	
p-Isopropyltoluene	0.00399J	mg/kg	0.00769	0.00392	1.02	11/17/20 11:07	11/23/20 23:21	99-87-6	J
2-Butanone (MEK)	<0.154	mg/kg	0.154	0.0977	1.02	11/17/20 11:07	11/23/20 23:21	78-93-3	
Methylene Chloride	<0.0384	mg/kg	0.0384	0.0102	1.02	11/17/20 11:07	11/23/20 23:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0384	mg/kg	0.0384	0.00351	1.02	11/17/20 11:07	11/23/20 23:21	108-10-1	
Methyl-tert-butyl ether	0.0125	mg/kg	0.00154	0.000538	1.02	11/17/20 11:07	11/23/20 23:21	1634-04-4	
Naphthalene	0.0962	mg/kg	0.0193	0.00751	1.02	11/17/20 11:07	11/23/20 23:21	91-20-3	
n-Propylbenzene	0.0264	mg/kg	0.00769	0.00146	1.02	11/17/20 11:07	11/23/20 23:21	103-65-1	C5
Styrene	<0.0193	mg/kg	0.0193	0.000353	1.02	11/17/20 11:07	11/23/20 23:21	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00384	mg/kg	0.00384	0.00146	1.02	11/17/20 11:07	11/23/20 23:21	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00384	mg/kg	0.00384	0.00107	1.02	11/17/20 11:07	11/23/20 23:21	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00384	mg/kg	0.00384	0.00116	1.02	11/17/20 11:07	11/23/20 23:21	76-13-1	
Tetrachloroethene	<0.00384	mg/kg	0.00384	0.00138	1.02	11/17/20 11:07	11/23/20 23:21	127-18-4	
Toluene	3.77	mg/kg	0.00769	0.00200	1.02	11/17/20 11:07	11/23/20 23:21	108-88-3	
1,2,3-Trichlorobenzene	<0.0193	mg/kg	0.0193	0.0113	1.02	11/17/20 11:07	11/23/20 23:21	87-61-6	C4,R1
1,2,4-Trichlorobenzene	<0.0193	mg/kg	0.0193	0.00677	1.02	11/17/20 11:07	11/23/20 23:21	120-82-1	
1,1,1-Trichloroethane	<0.00384	mg/kg	0.00384	0.00142	1.02	11/17/20 11:07	11/23/20 23:21	71-55-6	
1,1,2-Trichloroethane	<0.00384	mg/kg	0.00384	0.000918	1.02	11/17/20 11:07	11/23/20 23:21	79-00-5	
Trichloroethene	<0.00154	mg/kg	0.00154	0.000898	1.02	11/17/20 11:07	11/23/20 23:21	79-01-6	
Trichlorofluoromethane	<0.00384	mg/kg	0.00384	0.00127	1.02	11/17/20 11:07	11/23/20 23:21	75-69-4	
1,2,3-Trichloropropane	<0.0193	mg/kg	0.0193	0.00249	1.02	11/17/20 11:07	11/23/20 23:21	96-18-4	
1,2,4-Trimethylbenzene	0.668	mg/kg	0.00769	0.00243	1.02	11/17/20 11:07	11/23/20 23:21	95-63-6	
1,2,3-Trimethylbenzene	0.228	mg/kg	0.00769	0.00243	1.02	11/17/20 11:07	11/23/20 23:21	526-73-8	
1,3,5-Trimethylbenzene	0.178	mg/kg	0.00769	0.00308	1.02	11/17/20 11:07	11/23/20 23:21	108-67-8	
Vinyl chloride	<0.00384	mg/kg	0.00384	0.00178	1.02	11/17/20 11:07	11/23/20 23:21	75-01-4	
Xylene (Total)	2.26	mg/kg	0.00999	0.00135	1.02	11/17/20 11:07	11/23/20 23:21	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	113	%	75.0-131		1.02	11/17/20 11:07	11/23/20 23:21	2037-26-5	
4-Bromofluorobenzene (S)	90.3	%	67.0-138		1.02	11/17/20 11:07	11/23/20 23:21	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130		1.02	11/17/20 11:07	11/23/20 23:21	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	79.6	%			1	11/25/20 05:35	11/25/20 05:43		

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 325-B**      **Lab ID: 92506678017**      Collected: 11/17/20 11:11      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	25.6	mg/kg	8.43	2.81	1.08	11/17/20 11:11	11/24/20 17:34		
Aliphatic (C09-C12)	<8.43	mg/kg	8.43	2.81	1.08	11/17/20 11:11	11/24/20 17:34		
Aromatic (C09-C10), Unadjusted	3.29J	mg/kg	8.43	2.81	1.08	11/17/20 11:11	11/24/20 17:34	TPHC9C10A J	
Total VPH	28.9	mg/kg	8.43	2.81	1.08	11/17/20 11:11	11/24/20 17:34	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	80.9	%	70.0-130		1.08	11/17/20 11:11	11/24/20 17:34	615-59-8FID	
2,5-Dibromotoluene (PID)	77.6	%	70.0-130		1.08	11/17/20 11:11	11/24/20 17:34	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<0.0793	mg/kg	0.0793	0.0579	1	11/17/20 11:11	11/24/20 00:55	67-64-1	
Acrylonitrile	<0.0198	mg/kg	0.0198	0.00573	1	11/17/20 11:11	11/24/20 00:55	107-13-1	
Benzene	0.115	mg/kg	0.00159	0.000741	1	11/17/20 11:11	11/24/20 00:55	71-43-2	
Bromobenzene	<0.0198	mg/kg	0.0198	0.00143	1	11/17/20 11:11	11/24/20 00:55	108-86-1	
Bromodichloromethane	<0.00397	mg/kg	0.00397	0.00115	1	11/17/20 11:11	11/24/20 00:55	75-27-4	
Bromoform	<0.0397	mg/kg	0.0397	0.00186	1	11/17/20 11:11	11/24/20 00:55	75-25-2	
Bromomethane	<0.0198	mg/kg	0.0198	0.00312	1	11/17/20 11:11	11/24/20 00:55	74-83-9	
n-Butylbenzene	<0.0198	mg/kg	0.0198	0.00833	1	11/17/20 11:11	11/24/20 00:55	104-51-8	
sec-Butylbenzene	<0.0198	mg/kg	0.0198	0.00457	1	11/17/20 11:11	11/24/20 00:55	135-98-8	
tert-Butylbenzene	<0.00793	mg/kg	0.00793	0.00309	1	11/17/20 11:11	11/24/20 00:55	98-06-6	
Carbon tetrachloride	<0.00793	mg/kg	0.00793	0.00142	1	11/17/20 11:11	11/24/20 00:55	56-23-5	
Chlorobenzene	<0.00397	mg/kg	0.00397	0.000333	1	11/17/20 11:11	11/24/20 00:55	108-90-7	
Dibromochloromethane	<0.00397	mg/kg	0.00397	0.000971	1	11/17/20 11:11	11/24/20 00:55	124-48-1	
Chloroethane	<0.00793	mg/kg	0.00793	0.00270	1	11/17/20 11:11	11/24/20 00:55	75-00-3	
Chloroform	<0.00397	mg/kg	0.00397	0.00163	1	11/17/20 11:11	11/24/20 00:55	67-66-3	
Chloromethane	<0.0198	mg/kg	0.0198	0.00690	1	11/17/20 11:11	11/24/20 00:55	74-87-3	
2-Chlorotoluene	<0.00397	mg/kg	0.00397	0.00137	1	11/17/20 11:11	11/24/20 00:55	95-49-8	
4-Chlorotoluene	<0.00793	mg/kg	0.00793	0.000714	1	11/17/20 11:11	11/24/20 00:55	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0397	mg/kg	0.0397	0.00619	1	11/17/20 11:11	11/24/20 00:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.00397	mg/kg	0.00397	0.00103	1	11/17/20 11:11	11/24/20 00:55	106-93-4	
Dibromomethane	<0.00793	mg/kg	0.00793	0.00119	1	11/17/20 11:11	11/24/20 00:55	74-95-3	
1,2-Dichlorobenzene	<0.00793	mg/kg	0.00793	0.000674	1	11/17/20 11:11	11/24/20 00:55	95-50-1	
1,3-Dichlorobenzene	<0.00793	mg/kg	0.00793	0.000952	1	11/17/20 11:11	11/24/20 00:55	541-73-1	
1,4-Dichlorobenzene	<0.00793	mg/kg	0.00793	0.00111	1	11/17/20 11:11	11/24/20 00:55	106-46-7	
Dichlorodifluoromethane	<0.00397	mg/kg	0.00397	0.00255	1	11/17/20 11:11	11/24/20 00:55	75-71-8	
1,1-Dichloroethane	<0.00397	mg/kg	0.00397	0.000779	1	11/17/20 11:11	11/24/20 00:55	75-34-3	
1,2-Dichloroethane	<0.00397	mg/kg	0.00397	0.00103	1	11/17/20 11:11	11/24/20 00:55	107-06-2	
1,1-Dichloroethene	<0.00397	mg/kg	0.00397	0.000961	1	11/17/20 11:11	11/24/20 00:55	75-35-4	
cis-1,2-Dichloroethene	<0.00397	mg/kg	0.00397	0.00116	1	11/17/20 11:11	11/24/20 00:55	156-59-2	
trans-1,2-Dichloroethene	<0.00793	mg/kg	0.00793	0.00165	1	11/17/20 11:11	11/24/20 00:55	156-60-5	
1,2-Dichloropropane	<0.00793	mg/kg	0.00793	0.00225	1	11/17/20 11:11	11/24/20 00:55	78-87-5	
1,1-Dichloropropene	<0.00397	mg/kg	0.00397	0.00128	1	11/17/20 11:11	11/24/20 00:55	563-58-6	
1,3-Dichloropropane	<0.00793	mg/kg	0.00793	0.000795	1	11/17/20 11:11	11/24/20 00:55	142-28-9	
cis-1,3-Dichloropropene	<0.00397	mg/kg	0.00397	0.00120	1	11/17/20 11:11	11/24/20 00:55	10061-01-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 325-B**      **Lab ID: 92506678017**      Collected: 11/17/20 11:11      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00793	mg/kg	0.00793	0.00181	1	11/17/20 11:11	11/24/20 00:55	10061-02-6	
2,2-Dichloropropane	<0.00397	mg/kg	0.00397	0.00219	1	11/17/20 11:11	11/24/20 00:55	594-20-7	
Diisopropyl ether	0.00192	mg/kg	0.00159	0.000650	1	11/17/20 11:11	11/24/20 00:55	108-20-3	
Ethylbenzene	0.00370J	mg/kg	0.00397	0.00117	1	11/17/20 11:11	11/24/20 00:55	100-41-4	J
Hexachloro-1,3-butadiene	<0.0397	mg/kg	0.0397	0.00952	1	11/17/20 11:11	11/24/20 00:55	87-68-3	
Isopropylbenzene (Cumene)	<0.00397	mg/kg	0.00397	0.000674	1	11/17/20 11:11	11/24/20 00:55	98-82-8	
p-Isopropyltoluene	<0.00793	mg/kg	0.00793	0.00404	1	11/17/20 11:11	11/24/20 00:55	99-87-6	
2-Butanone (MEK)	<0.159	mg/kg	0.159	0.101	1	11/17/20 11:11	11/24/20 00:55	78-93-3	
Methylene Chloride	<0.0397	mg/kg	0.0397	0.0105	1	11/17/20 11:11	11/24/20 00:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0397	mg/kg	0.0397	0.00362	1	11/17/20 11:11	11/24/20 00:55	108-10-1	
Methyl-tert-butyl ether	<0.00159	mg/kg	0.00159	0.000555	1	11/17/20 11:11	11/24/20 00:55	1634-04-4	
Naphthalene	<0.0198	mg/kg	0.0198	0.00774	1	11/17/20 11:11	11/24/20 00:55	91-20-3	
n-Propylbenzene	0.00153J	mg/kg	0.00793	0.00151	1	11/17/20 11:11	11/24/20 00:55	103-65-1	J
Styrene	<0.0198	mg/kg	0.0198	0.000363	1	11/17/20 11:11	11/24/20 00:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00397	mg/kg	0.00397	0.00150	1	11/17/20 11:11	11/24/20 00:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00397	mg/kg	0.00397	0.00110	1	11/17/20 11:11	11/24/20 00:55	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00397	mg/kg	0.00397	0.00120	1	11/17/20 11:11	11/24/20 00:55	76-13-1	
Tetrachloroethene	<0.00397	mg/kg	0.00397	0.00142	1	11/17/20 11:11	11/24/20 00:55	127-18-4	
Toluene	0.179	mg/kg	0.00793	0.00206	1	11/17/20 11:11	11/24/20 00:55	108-88-3	
1,2,3-Trichlorobenzene	<0.0198	mg/kg	0.0198	0.0116	1	11/17/20 11:11	11/24/20 00:55	87-61-6	C4,R1
1,2,4-Trichlorobenzene	<0.0198	mg/kg	0.0198	0.00698	1	11/17/20 11:11	11/24/20 00:55	120-82-1	
1,1,1-Trichloroethane	<0.00397	mg/kg	0.00397	0.00146	1	11/17/20 11:11	11/24/20 00:55	71-55-6	
1,1,2-Trichloroethane	<0.00397	mg/kg	0.00397	0.000947	1	11/17/20 11:11	11/24/20 00:55	79-00-5	
Trichloroethene	<0.00159	mg/kg	0.00159	0.000926	1	11/17/20 11:11	11/24/20 00:55	79-01-6	
Trichlorofluoromethane	<0.00397	mg/kg	0.00397	0.00131	1	11/17/20 11:11	11/24/20 00:55	75-69-4	
1,2,3-Trichloropropane	<0.0198	mg/kg	0.0198	0.00257	1	11/17/20 11:11	11/24/20 00:55	96-18-4	
1,2,4-Trimethylbenzene	0.0622	mg/kg	0.00793	0.00251	1	11/17/20 11:11	11/24/20 00:55	95-63-6	
1,2,3-Trimethylbenzene	0.0752	mg/kg	0.00793	0.00251	1	11/17/20 11:11	11/24/20 00:55	526-73-8	
1,3,5-Trimethylbenzene	0.0893	mg/kg	0.00793	0.00317	1	11/17/20 11:11	11/24/20 00:55	108-67-8	
Vinyl chloride	<0.00397	mg/kg	0.00397	0.00184	1	11/17/20 11:11	11/24/20 00:55	75-01-4	
Xylene (Total)	0.219	mg/kg	0.0103	0.00140	1	11/17/20 11:11	11/24/20 00:55	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	107	%	75.0-131		1	11/17/20 11:11	11/24/20 00:55	2037-26-5	
4-Bromofluorobenzene (S)	96.1	%	67.0-138		1	11/17/20 11:11	11/24/20 00:55	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130		1	11/17/20 11:11	11/24/20 00:55	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids      **77.4**      %      1      11/25/20 05:35      11/25/20 05:43

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506678

**Sample: 325-E**      **Lab ID: 92506678018**      Collected: 11/17/20 14:10      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<7.86	mg/kg	7.86	2.61	1.04	11/17/20 14:10	11/24/20 18:07		
Aliphatic (C09-C12)	<7.86	mg/kg	7.86	2.61	1.04	11/17/20 14:10	11/24/20 18:07		
Aromatic (C09-C10), Unadjusted	<7.86	mg/kg	7.86	2.61	1.04	11/17/20 14:10	11/24/20 18:07	TPHC9C10A	
Total VPH	<7.86	mg/kg	7.86	2.61	1.04	11/17/20 14:10	11/24/20 18:07	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	80.1	%	70.0-130		1.04	11/17/20 14:10	11/24/20 18:07	615-59-8FID	
2,5-Dibromotoluene (PID)	76.5	%	70.0-130		1.04	11/17/20 14:10	11/24/20 18:07	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<0.0799	mg/kg	0.0799	0.0583	1.06	11/17/20 14:10	11/24/20 01:14	67-64-1	
Acrylonitrile	<0.0200	mg/kg	0.0200	0.00577	1.06	11/17/20 14:10	11/24/20 01:14	107-13-1	
Benzene	0.0659	mg/kg	0.00160	0.000746	1.06	11/17/20 14:10	11/24/20 01:14	71-43-2	
Bromobenzene	<0.0200	mg/kg	0.0200	0.00144	1.06	11/17/20 14:10	11/24/20 01:14	108-86-1	
Bromodichloromethane	<0.00399	mg/kg	0.00399	0.00116	1.06	11/17/20 14:10	11/24/20 01:14	75-27-4	
Bromoform	<0.0399	mg/kg	0.0399	0.00187	1.06	11/17/20 14:10	11/24/20 01:14	75-25-2	
Bromomethane	<0.0200	mg/kg	0.0200	0.00315	1.06	11/17/20 14:10	11/24/20 01:14	74-83-9	
n-Butylbenzene	<0.0200	mg/kg	0.0200	0.00838	1.06	11/17/20 14:10	11/24/20 01:14	104-51-8	
sec-Butylbenzene	<0.0200	mg/kg	0.0200	0.00460	1.06	11/17/20 14:10	11/24/20 01:14	135-98-8	
tert-Butylbenzene	<0.00799	mg/kg	0.00799	0.00312	1.06	11/17/20 14:10	11/24/20 01:14	98-06-6	
Carbon tetrachloride	<0.00799	mg/kg	0.00799	0.00143	1.06	11/17/20 14:10	11/24/20 01:14	56-23-5	
Chlorobenzene	<0.00399	mg/kg	0.00399	0.000336	1.06	11/17/20 14:10	11/24/20 01:14	108-90-7	
Dibromochloromethane	<0.00399	mg/kg	0.00399	0.000978	1.06	11/17/20 14:10	11/24/20 01:14	124-48-1	
Chloroethane	<0.00799	mg/kg	0.00799	0.00271	1.06	11/17/20 14:10	11/24/20 01:14	75-00-3	
Chloroform	<0.00399	mg/kg	0.00399	0.00164	1.06	11/17/20 14:10	11/24/20 01:14	67-66-3	
Chloromethane	<0.0200	mg/kg	0.0200	0.00695	1.06	11/17/20 14:10	11/24/20 01:14	74-87-3	
2-Chlorotoluene	<0.00399	mg/kg	0.00399	0.00138	1.06	11/17/20 14:10	11/24/20 01:14	95-49-8	
4-Chlorotoluene	<0.00799	mg/kg	0.00799	0.000719	1.06	11/17/20 14:10	11/24/20 01:14	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0399	mg/kg	0.0399	0.00622	1.06	11/17/20 14:10	11/24/20 01:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.00399	mg/kg	0.00399	0.00104	1.06	11/17/20 14:10	11/24/20 01:14	106-93-4	
Dibromomethane	<0.00799	mg/kg	0.00799	0.00120	1.06	11/17/20 14:10	11/24/20 01:14	74-95-3	
1,2-Dichlorobenzene	<0.00799	mg/kg	0.00799	0.000680	1.06	11/17/20 14:10	11/24/20 01:14	95-50-1	
1,3-Dichlorobenzene	<0.00799	mg/kg	0.00799	0.000958	1.06	11/17/20 14:10	11/24/20 01:14	541-73-1	
1,4-Dichlorobenzene	<0.00799	mg/kg	0.00799	0.00112	1.06	11/17/20 14:10	11/24/20 01:14	106-46-7	
Dichlorodifluoromethane	<0.00399	mg/kg	0.00399	0.00258	1.06	11/17/20 14:10	11/24/20 01:14	75-71-8	
1,1-Dichloroethane	<0.00399	mg/kg	0.00399	0.000784	1.06	11/17/20 14:10	11/24/20 01:14	75-34-3	
1,2-Dichloroethane	<0.00399	mg/kg	0.00399	0.00104	1.06	11/17/20 14:10	11/24/20 01:14	107-06-2	
1,1-Dichloroethene	<0.00399	mg/kg	0.00399	0.000967	1.06	11/17/20 14:10	11/24/20 01:14	75-35-4	
cis-1,2-Dichloroethene	<0.00399	mg/kg	0.00399	0.00117	1.06	11/17/20 14:10	11/24/20 01:14	156-59-2	
trans-1,2-Dichloroethene	<0.00799	mg/kg	0.00799	0.00166	1.06	11/17/20 14:10	11/24/20 01:14	156-60-5	
1,2-Dichloropropane	<0.00799	mg/kg	0.00799	0.00228	1.06	11/17/20 14:10	11/24/20 01:14	78-87-5	
1,1-Dichloropropene	<0.00399	mg/kg	0.00399	0.00129	1.06	11/17/20 14:10	11/24/20 01:14	563-58-6	
1,3-Dichloropropane	<0.00799	mg/kg	0.00799	0.000800	1.06	11/17/20 14:10	11/24/20 01:14	142-28-9	
cis-1,3-Dichloropropene	<0.00399	mg/kg	0.00399	0.00121	1.06	11/17/20 14:10	11/24/20 01:14	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

Sample: 325-E Lab ID: 92506678018 Collected: 11/17/20 14:10 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00799	mg/kg	0.00799	0.00182	1.06	11/17/20 14:10	11/24/20 01:14	10061-02-6	
2,2-Dichloropropane	<0.00399	mg/kg	0.00399	0.00220	1.06	11/17/20 14:10	11/24/20 01:14	594-20-7	
Diisopropyl ether	<0.00160	mg/kg	0.00160	0.000656	1.06	11/17/20 14:10	11/24/20 01:14	108-20-3	
Ethylbenzene	<0.00399	mg/kg	0.00399	0.00118	1.06	11/17/20 14:10	11/24/20 01:14	100-41-4	
Hexachloro-1,3-butadiene	<0.0399	mg/kg	0.0399	0.00958	1.06	11/17/20 14:10	11/24/20 01:14	87-68-3	
Isopropylbenzene (Cumene)	<0.00399	mg/kg	0.00399	0.000680	1.06	11/17/20 14:10	11/24/20 01:14	98-82-8	
p-Isopropyltoluene	<0.00799	mg/kg	0.00799	0.00407	1.06	11/17/20 14:10	11/24/20 01:14	99-87-6	
2-Butanone (MEK)	<0.160	mg/kg	0.160	0.101	1.06	11/17/20 14:10	11/24/20 01:14	78-93-3	
Methylene Chloride	<0.0399	mg/kg	0.0399	0.0106	1.06	11/17/20 14:10	11/24/20 01:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0399	mg/kg	0.0399	0.00365	1.06	11/17/20 14:10	11/24/20 01:14	108-10-1	
Methyl-tert-butyl ether	0.00460	mg/kg	0.00160	0.000559	1.06	11/17/20 14:10	11/24/20 01:14	1634-04-4	
Naphthalene	<0.0200	mg/kg	0.0200	0.00779	1.06	11/17/20 14:10	11/24/20 01:14	91-20-3	
n-Propylbenzene	<0.00799	mg/kg	0.00799	0.00152	1.06	11/17/20 14:10	11/24/20 01:14	103-65-1	
Styrene	<0.0200	mg/kg	0.0200	0.000366	1.06	11/17/20 14:10	11/24/20 01:14	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00399	mg/kg	0.00399	0.00151	1.06	11/17/20 14:10	11/24/20 01:14	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00399	mg/kg	0.00399	0.00111	1.06	11/17/20 14:10	11/24/20 01:14	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00399	mg/kg	0.00399	0.00120	1.06	11/17/20 14:10	11/24/20 01:14	76-13-1	
Tetrachloroethene	<0.00399	mg/kg	0.00399	0.00143	1.06	11/17/20 14:10	11/24/20 01:14	127-18-4	
Toluene	0.118	mg/kg	0.00799	0.00208	1.06	11/17/20 14:10	11/24/20 01:14	108-88-3	
1,2,3-Trichlorobenzene	<0.0200	mg/kg	0.0200	0.0117	1.06	11/17/20 14:10	11/24/20 01:14	87-61-6	C4,R1
1,2,4-Trichlorobenzene	<0.0200	mg/kg	0.0200	0.00702	1.06	11/17/20 14:10	11/24/20 01:14	120-82-1	
1,1,1-Trichloroethane	<0.00399	mg/kg	0.00399	0.00147	1.06	11/17/20 14:10	11/24/20 01:14	71-55-6	
1,1,2-Trichloroethane	<0.00399	mg/kg	0.00399	0.000954	1.06	11/17/20 14:10	11/24/20 01:14	79-00-5	
Trichloroethene	<0.00160	mg/kg	0.00160	0.000933	1.06	11/17/20 14:10	11/24/20 01:14	79-01-6	
Trichlorofluoromethane	<0.00399	mg/kg	0.00399	0.00132	1.06	11/17/20 14:10	11/24/20 01:14	75-69-4	
1,2,3-Trichloropropane	<0.0200	mg/kg	0.0200	0.00259	1.06	11/17/20 14:10	11/24/20 01:14	96-18-4	
1,2,4-Trimethylbenzene	0.00518J	mg/kg	0.00799	0.00252	1.06	11/17/20 14:10	11/24/20 01:14	95-63-6	B,J
1,2,3-Trimethylbenzene	<0.00799	mg/kg	0.00799	0.00252	1.06	11/17/20 14:10	11/24/20 01:14	526-73-8	
1,3,5-Trimethylbenzene	0.00356J	mg/kg	0.00799	0.00319	1.06	11/17/20 14:10	11/24/20 01:14	108-67-8	J
Vinyl chloride	<0.00399	mg/kg	0.00399	0.00185	1.06	11/17/20 14:10	11/24/20 01:14	75-01-4	
Xylene (Total)	0.0473	mg/kg	0.0104	0.00141	1.06	11/17/20 14:10	11/24/20 01:14	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	75.0-131		1.06	11/17/20 14:10	11/24/20 01:14	2037-26-5	
4-Bromofluorobenzene (S)	91.8	%	67.0-138		1.06	11/17/20 14:10	11/24/20 01:14	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130		1.06	11/17/20 14:10	11/24/20 01:14	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids **79.3** % 1 11/25/20 05:35 11/25/20 05:43

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 350-W**      **Lab ID: 92506678019**      Collected: 11/17/20 11:14      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>3.21J</b>	mg/kg	9.48	3.15	1.27	11/17/20 11:14	11/24/20 18:40		J
Aliphatic (C09-C12)	<b>&lt;9.48</b>	mg/kg	9.48	3.15	1.27	11/17/20 11:14	11/24/20 18:40		
Aromatic (C09-C10), Unadjusted	<b>&lt;9.48</b>	mg/kg	9.48	3.15	1.27	11/17/20 11:14	11/24/20 18:40	TPHC9C10A	
Total VPH	<b>3.21J</b>	mg/kg	9.48	3.15	1.27	11/17/20 11:14	11/24/20 18:40	VPH	J

**Surrogates**

2,5-Dibromotoluene (FID)	85.7	%	70.0-130		1.27	11/17/20 11:14	11/24/20 18:40	615-59-8FID	
2,5-Dibromotoluene (PID)	82.0	%	70.0-130		1.27	11/17/20 11:14	11/24/20 18:40	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<b>&lt;0.0776</b>	mg/kg	0.0776	0.0566	1	11/17/20 11:14	11/24/20 01:33	67-64-1	
Acrylonitrile	<b>&lt;0.0194</b>	mg/kg	0.0194	0.00560	1	11/17/20 11:14	11/24/20 01:33	107-13-1	
Benzene	<b>0.0379</b>	mg/kg	0.00155	0.000725	1	11/17/20 11:14	11/24/20 01:33	71-43-2	
Bromobenzene	<b>&lt;0.0194</b>	mg/kg	0.0194	0.00140	1	11/17/20 11:14	11/24/20 01:33	108-86-1	
Bromodichloromethane	<b>&lt;0.00388</b>	mg/kg	0.00388	0.00112	1	11/17/20 11:14	11/24/20 01:33	75-27-4	
Bromoform	<b>&lt;0.0388</b>	mg/kg	0.0388	0.00182	1	11/17/20 11:14	11/24/20 01:33	75-25-2	
Bromomethane	<b>&lt;0.0194</b>	mg/kg	0.0194	0.00306	1	11/17/20 11:14	11/24/20 01:33	74-83-9	
n-Butylbenzene	<b>&lt;0.0194</b>	mg/kg	0.0194	0.00815	1	11/17/20 11:14	11/24/20 01:33	104-51-8	
sec-Butylbenzene	<b>&lt;0.0194</b>	mg/kg	0.0194	0.00447	1	11/17/20 11:14	11/24/20 01:33	135-98-8	
tert-Butylbenzene	<b>&lt;0.00776</b>	mg/kg	0.00776	0.00303	1	11/17/20 11:14	11/24/20 01:33	98-06-6	
Carbon tetrachloride	<b>&lt;0.00776</b>	mg/kg	0.00776	0.00139	1	11/17/20 11:14	11/24/20 01:33	56-23-5	
Chlorobenzene	<b>&lt;0.00388</b>	mg/kg	0.00388	0.000326	1	11/17/20 11:14	11/24/20 01:33	108-90-7	
Dibromochloromethane	<b>&lt;0.00388</b>	mg/kg	0.00388	0.000950	1	11/17/20 11:14	11/24/20 01:33	124-48-1	
Chloroethane	<b>&lt;0.00776</b>	mg/kg	0.00776	0.00264	1	11/17/20 11:14	11/24/20 01:33	75-00-3	
Chloroform	<b>&lt;0.00388</b>	mg/kg	0.00388	0.00160	1	11/17/20 11:14	11/24/20 01:33	67-66-3	
Chloromethane	<b>&lt;0.0194</b>	mg/kg	0.0194	0.00675	1	11/17/20 11:14	11/24/20 01:33	74-87-3	
2-Chlorotoluene	<b>&lt;0.00388</b>	mg/kg	0.00388	0.00134	1	11/17/20 11:14	11/24/20 01:33	95-49-8	
4-Chlorotoluene	<b>&lt;0.00776</b>	mg/kg	0.00776	0.000698	1	11/17/20 11:14	11/24/20 01:33	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0388</b>	mg/kg	0.0388	0.00605	1	11/17/20 11:14	11/24/20 01:33	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00388</b>	mg/kg	0.00388	0.00101	1	11/17/20 11:14	11/24/20 01:33	106-93-4	
Dibromomethane	<b>&lt;0.00776</b>	mg/kg	0.00776	0.00116	1	11/17/20 11:14	11/24/20 01:33	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00776</b>	mg/kg	0.00776	0.000659	1	11/17/20 11:14	11/24/20 01:33	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00776</b>	mg/kg	0.00776	0.000931	1	11/17/20 11:14	11/24/20 01:33	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00776</b>	mg/kg	0.00776	0.00109	1	11/17/20 11:14	11/24/20 01:33	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00388</b>	mg/kg	0.00388	0.00250	1	11/17/20 11:14	11/24/20 01:33	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00388</b>	mg/kg	0.00388	0.000762	1	11/17/20 11:14	11/24/20 01:33	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00388</b>	mg/kg	0.00388	0.00101	1	11/17/20 11:14	11/24/20 01:33	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00388</b>	mg/kg	0.00388	0.000940	1	11/17/20 11:14	11/24/20 01:33	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.00388</b>	mg/kg	0.00388	0.00114	1	11/17/20 11:14	11/24/20 01:33	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00776</b>	mg/kg	0.00776	0.00161	1	11/17/20 11:14	11/24/20 01:33	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00776</b>	mg/kg	0.00776	0.00220	1	11/17/20 11:14	11/24/20 01:33	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00388</b>	mg/kg	0.00388	0.00126	1	11/17/20 11:14	11/24/20 01:33	563-58-6	
1,3-Dichloropropane	<b>&lt;0.00776</b>	mg/kg	0.00776	0.000777	1	11/17/20 11:14	11/24/20 01:33	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.00388</b>	mg/kg	0.00388	0.00117	1	11/17/20 11:14	11/24/20 01:33	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 350-W**      **Lab ID: 92506678019**      Collected: 11/17/20 11:14      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00776	mg/kg	0.00776	0.00177	1	11/17/20 11:14	11/24/20 01:33	10061-02-6	
2,2-Dichloropropane	<0.00388	mg/kg	0.00388	0.00214	1	11/17/20 11:14	11/24/20 01:33	594-20-7	
Diisopropyl ether	<0.00155	mg/kg	0.00155	0.000636	1	11/17/20 11:14	11/24/20 01:33	108-20-3	
Ethylbenzene	<0.00388	mg/kg	0.00388	0.00114	1	11/17/20 11:14	11/24/20 01:33	100-41-4	
Hexachloro-1,3-butadiene	<0.0388	mg/kg	0.0388	0.00931	1	11/17/20 11:14	11/24/20 01:33	87-68-3	
Isopropylbenzene (Cumene)	<0.00388	mg/kg	0.00388	0.000659	1	11/17/20 11:14	11/24/20 01:33	98-82-8	
p-Isopropyltoluene	<0.00776	mg/kg	0.00776	0.00396	1	11/17/20 11:14	11/24/20 01:33	99-87-6	
2-Butanone (MEK)	<0.155	mg/kg	0.155	0.0985	1	11/17/20 11:14	11/24/20 01:33	78-93-3	
Methylene Chloride	<0.0388	mg/kg	0.0388	0.0103	1	11/17/20 11:14	11/24/20 01:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0388	mg/kg	0.0388	0.00354	1	11/17/20 11:14	11/24/20 01:33	108-10-1	
Methyl-tert-butyl ether	<0.00155	mg/kg	0.00155	0.000543	1	11/17/20 11:14	11/24/20 01:33	1634-04-4	
Naphthalene	<0.0194	mg/kg	0.0194	0.00757	1	11/17/20 11:14	11/24/20 01:33	91-20-3	
n-Propylbenzene	<0.00776	mg/kg	0.00776	0.00147	1	11/17/20 11:14	11/24/20 01:33	103-65-1	
Styrene	<0.0194	mg/kg	0.0194	0.000355	1	11/17/20 11:14	11/24/20 01:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00388	mg/kg	0.00388	0.00147	1	11/17/20 11:14	11/24/20 01:33	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00388	mg/kg	0.00388	0.00108	1	11/17/20 11:14	11/24/20 01:33	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00388	mg/kg	0.00388	0.00117	1	11/17/20 11:14	11/24/20 01:33	76-13-1	
Tetrachloroethene	<0.00388	mg/kg	0.00388	0.00139	1	11/17/20 11:14	11/24/20 01:33	127-18-4	
Toluene	0.0641	mg/kg	0.00776	0.00202	1	11/17/20 11:14	11/24/20 01:33	108-88-3	
1,2,3-Trichlorobenzene	<0.0194	mg/kg	0.0194	0.0114	1	11/17/20 11:14	11/24/20 01:33	87-61-6	C4,R1
1,2,4-Trichlorobenzene	<0.0194	mg/kg	0.0194	0.00683	1	11/17/20 11:14	11/24/20 01:33	120-82-1	
1,1,1-Trichloroethane	<0.00388	mg/kg	0.00388	0.00143	1	11/17/20 11:14	11/24/20 01:33	71-55-6	
1,1,2-Trichloroethane	<0.00388	mg/kg	0.00388	0.000926	1	11/17/20 11:14	11/24/20 01:33	79-00-5	
Trichloroethene	<0.00155	mg/kg	0.00155	0.000906	1	11/17/20 11:14	11/24/20 01:33	79-01-6	
Trichlorofluoromethane	<0.00388	mg/kg	0.00388	0.00128	1	11/17/20 11:14	11/24/20 01:33	75-69-4	
1,2,3-Trichloropropane	<0.0194	mg/kg	0.0194	0.00251	1	11/17/20 11:14	11/24/20 01:33	96-18-4	
1,2,4-Trimethylbenzene	0.00318J	mg/kg	0.00776	0.00245	1	11/17/20 11:14	11/24/20 01:33	95-63-6	B,J
1,2,3-Trimethylbenzene	<0.00776	mg/kg	0.00776	0.00245	1	11/17/20 11:14	11/24/20 01:33	526-73-8	
1,3,5-Trimethylbenzene	<0.00776	mg/kg	0.00776	0.00310	1	11/17/20 11:14	11/24/20 01:33	108-67-8	
Vinyl chloride	<0.00388	mg/kg	0.00388	0.00180	1	11/17/20 11:14	11/24/20 01:33	75-01-4	
Xylene (Total)	0.0318	mg/kg	0.0101	0.00137	1	11/17/20 11:14	11/24/20 01:33	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	75.0-131		1	11/17/20 11:14	11/24/20 01:33	2037-26-5	
4-Bromofluorobenzene (S)	91.2	%	67.0-138		1	11/17/20 11:14	11/24/20 01:33	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130		1	11/17/20 11:14	11/24/20 01:33	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids      **78.4**      %      1      11/25/20 05:35      11/25/20 05:43

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## ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506678

**Sample: 350-B**      **Lab ID: 92506678020**      Collected: 11/17/20 11:15      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	5.74J	mg/kg	8.46	2.83	1	11/17/20 11:15	11/24/20 19:14		J
Aliphatic (C09-C12)	<8.46	mg/kg	8.46	2.83	1	11/17/20 11:15	11/24/20 19:14		
Aromatic (C09-C10), Unadjusted	<8.46	mg/kg	8.46	2.83	1	11/17/20 11:15	11/24/20 19:14	TPHC9C10A	
Total VPH	5.74J	mg/kg	8.46	2.83	1	11/17/20 11:15	11/24/20 19:14	VPH	J

**Surrogates**

2,5-Dibromotoluene (FID)	89.9	%	70.0-130		1	11/17/20 11:15	11/24/20 19:14	615-59-8FID	
2,5-Dibromotoluene (PID)	87.7	%	70.0-130		1	11/17/20 11:15	11/24/20 19:14	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<0.0830	mg/kg	0.0830	0.0606	1	11/17/20 11:15	11/24/20 01:52	67-64-1	
Acrylonitrile	<0.0207	mg/kg	0.0207	0.00599	1	11/17/20 11:15	11/24/20 01:52	107-13-1	
Benzene	0.00239	mg/kg	0.00166	0.000775	1	11/17/20 11:15	11/24/20 01:52	71-43-2	
Bromobenzene	<0.0207	mg/kg	0.0207	0.00149	1	11/17/20 11:15	11/24/20 01:52	108-86-1	
Bromodichloromethane	<0.00415	mg/kg	0.00415	0.00120	1	11/17/20 11:15	11/24/20 01:52	75-27-4	
Bromoform	<0.0415	mg/kg	0.0415	0.00194	1	11/17/20 11:15	11/24/20 01:52	75-25-2	
Bromomethane	<0.0207	mg/kg	0.0207	0.00327	1	11/17/20 11:15	11/24/20 01:52	74-83-9	
n-Butylbenzene	<0.0207	mg/kg	0.0207	0.00871	1	11/17/20 11:15	11/24/20 01:52	104-51-8	
sec-Butylbenzene	<0.0207	mg/kg	0.0207	0.00478	1	11/17/20 11:15	11/24/20 01:52	135-98-8	
tert-Butylbenzene	<0.00830	mg/kg	0.00830	0.00324	1	11/17/20 11:15	11/24/20 01:52	98-06-6	
Carbon tetrachloride	<0.00830	mg/kg	0.00830	0.00149	1	11/17/20 11:15	11/24/20 01:52	56-23-5	
Chlorobenzene	<0.00415	mg/kg	0.00415	0.000348	1	11/17/20 11:15	11/24/20 01:52	108-90-7	
Dibromochloromethane	<0.00415	mg/kg	0.00415	0.00102	1	11/17/20 11:15	11/24/20 01:52	124-48-1	
Chloroethane	<0.00830	mg/kg	0.00830	0.00282	1	11/17/20 11:15	11/24/20 01:52	75-00-3	
Chloroform	<0.00415	mg/kg	0.00415	0.00171	1	11/17/20 11:15	11/24/20 01:52	67-66-3	
Chloromethane	<0.0207	mg/kg	0.0207	0.00722	1	11/17/20 11:15	11/24/20 01:52	74-87-3	
2-Chlorotoluene	<0.00415	mg/kg	0.00415	0.00144	1	11/17/20 11:15	11/24/20 01:52	95-49-8	
4-Chlorotoluene	<0.00830	mg/kg	0.00830	0.000747	1	11/17/20 11:15	11/24/20 01:52	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0415	mg/kg	0.0415	0.00647	1	11/17/20 11:15	11/24/20 01:52	96-12-8	
1,2-Dibromoethane (EDB)	<0.00415	mg/kg	0.00415	0.00108	1	11/17/20 11:15	11/24/20 01:52	106-93-4	
Dibromomethane	<0.00830	mg/kg	0.00830	0.00124	1	11/17/20 11:15	11/24/20 01:52	74-95-3	
1,2-Dichlorobenzene	<0.00830	mg/kg	0.00830	0.000705	1	11/17/20 11:15	11/24/20 01:52	95-50-1	
1,3-Dichlorobenzene	<0.00830	mg/kg	0.00830	0.000996	1	11/17/20 11:15	11/24/20 01:52	541-73-1	
1,4-Dichlorobenzene	<0.00830	mg/kg	0.00830	0.00116	1	11/17/20 11:15	11/24/20 01:52	106-46-7	
Dichlorodifluoromethane	<0.00415	mg/kg	0.00415	0.00267	1	11/17/20 11:15	11/24/20 01:52	75-71-8	
1,1-Dichloroethane	<0.00415	mg/kg	0.00415	0.000815	1	11/17/20 11:15	11/24/20 01:52	75-34-3	
1,2-Dichloroethane	<0.00415	mg/kg	0.00415	0.00108	1	11/17/20 11:15	11/24/20 01:52	107-06-2	
1,1-Dichloroethene	<0.00415	mg/kg	0.00415	0.00101	1	11/17/20 11:15	11/24/20 01:52	75-35-4	
cis-1,2-Dichloroethene	<0.00415	mg/kg	0.00415	0.00122	1	11/17/20 11:15	11/24/20 01:52	156-59-2	
trans-1,2-Dichloroethene	<0.00830	mg/kg	0.00830	0.00173	1	11/17/20 11:15	11/24/20 01:52	156-60-5	
1,2-Dichloropropane	<0.00830	mg/kg	0.00830	0.00236	1	11/17/20 11:15	11/24/20 01:52	78-87-5	
1,1-Dichloropropene	<0.00415	mg/kg	0.00415	0.00134	1	11/17/20 11:15	11/24/20 01:52	563-58-6	
1,3-Dichloropropane	<0.00830	mg/kg	0.00830	0.000831	1	11/17/20 11:15	11/24/20 01:52	142-28-9	
cis-1,3-Dichloropropene	<0.00415	mg/kg	0.00415	0.00126	1	11/17/20 11:15	11/24/20 01:52	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

Sample: 350-B Lab ID: 92506678020 Collected: 11/17/20 11:15 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00830	mg/kg	0.00830	0.00189	1	11/17/20 11:15	11/24/20 01:52	10061-02-6	
2,2-Dichloropropane	<0.00415	mg/kg	0.00415	0.00229	1	11/17/20 11:15	11/24/20 01:52	594-20-7	
Diisopropyl ether	<0.00166	mg/kg	0.00166	0.000680	1	11/17/20 11:15	11/24/20 01:52	108-20-3	
Ethylbenzene	0.00148J	mg/kg	0.00415	0.00122	1	11/17/20 11:15	11/24/20 01:52	100-41-4	J
Hexachloro-1,3-butadiene	<0.0415	mg/kg	0.0415	0.00996	1	11/17/20 11:15	11/24/20 01:52	87-68-3	
Isopropylbenzene (Cumene)	<0.00415	mg/kg	0.00415	0.000705	1	11/17/20 11:15	11/24/20 01:52	98-82-8	
p-Isopropyltoluene	<0.00830	mg/kg	0.00830	0.00423	1	11/17/20 11:15	11/24/20 01:52	99-87-6	
2-Butanone (MEK)	<0.166	mg/kg	0.166	0.105	1	11/17/20 11:15	11/24/20 01:52	78-93-3	
Methylene Chloride	<0.0415	mg/kg	0.0415	0.0110	1	11/17/20 11:15	11/24/20 01:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0415	mg/kg	0.0415	0.00378	1	11/17/20 11:15	11/24/20 01:52	108-10-1	
Methyl-tert-butyl ether	<0.00166	mg/kg	0.00166	0.000581	1	11/17/20 11:15	11/24/20 01:52	1634-04-4	
Naphthalene	<0.0207	mg/kg	0.0207	0.00810	1	11/17/20 11:15	11/24/20 01:52	91-20-3	
n-Propylbenzene	<0.00830	mg/kg	0.00830	0.00158	1	11/17/20 11:15	11/24/20 01:52	103-65-1	
Styrene	<0.0207	mg/kg	0.0207	0.000380	1	11/17/20 11:15	11/24/20 01:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00415	mg/kg	0.00415	0.00157	1	11/17/20 11:15	11/24/20 01:52	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00415	mg/kg	0.00415	0.00115	1	11/17/20 11:15	11/24/20 01:52	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00415	mg/kg	0.00415	0.00125	1	11/17/20 11:15	11/24/20 01:52	76-13-1	
Tetrachloroethene	<0.00415	mg/kg	0.00415	0.00149	1	11/17/20 11:15	11/24/20 01:52	127-18-4	
Toluene	0.0135	mg/kg	0.00830	0.00216	1	11/17/20 11:15	11/24/20 01:52	108-88-3	
1,2,3-Trichlorobenzene	<0.0207	mg/kg	0.0207	0.0122	1	11/17/20 11:15	11/24/20 01:52	87-61-6	C4,R1
1,2,4-Trichlorobenzene	<0.0207	mg/kg	0.0207	0.00730	1	11/17/20 11:15	11/24/20 01:52	120-82-1	
1,1,1-Trichloroethane	<0.00415	mg/kg	0.00415	0.00153	1	11/17/20 11:15	11/24/20 01:52	71-55-6	
1,1,2-Trichloroethane	<0.00415	mg/kg	0.00415	0.000991	1	11/17/20 11:15	11/24/20 01:52	79-00-5	
Trichloroethene	<0.00166	mg/kg	0.00166	0.000969	1	11/17/20 11:15	11/24/20 01:52	79-01-6	
Trichlorofluoromethane	<0.00415	mg/kg	0.00415	0.00137	1	11/17/20 11:15	11/24/20 01:52	75-69-4	
1,2,3-Trichloropropane	<0.0207	mg/kg	0.0207	0.00269	1	11/17/20 11:15	11/24/20 01:52	96-18-4	
1,2,4-Trimethylbenzene	0.00543J	mg/kg	0.00830	0.00262	1	11/17/20 11:15	11/24/20 01:52	95-63-6	B,J
1,2,3-Trimethylbenzene	0.00690J	mg/kg	0.00830	0.00262	1	11/17/20 11:15	11/24/20 01:52	526-73-8	J
1,3,5-Trimethylbenzene	0.00629J	mg/kg	0.00830	0.00332	1	11/17/20 11:15	11/24/20 01:52	108-67-8	J
Vinyl chloride	<0.00415	mg/kg	0.00415	0.00192	1	11/17/20 11:15	11/24/20 01:52	75-01-4	
Xylene (Total)	0.0231	mg/kg	0.0108	0.00146	1	11/17/20 11:15	11/24/20 01:52	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	112	%	75.0-131		1	11/17/20 11:15	11/24/20 01:52	2037-26-5	
4-Bromofluorobenzene (S)	89.6	%	67.0-138		1	11/17/20 11:15	11/24/20 01:52	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70.0-130		1	11/17/20 11:15	11/24/20 01:52	17060-07-0	
<b>Total Solids 2540 G-2011</b>									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	75.3	%			1	11/25/20 05:35	11/25/20 05:43		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 350-E**      **Lab ID: 92506678021**      Collected: 11/17/20 14:49      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<7.87	mg/kg	7.87	2.63	1	11/17/20 14:49	11/24/20 19:46		
Aliphatic (C09-C12)	<7.87	mg/kg	7.87	2.63	1	11/17/20 14:49	11/24/20 19:46		
Aromatic (C09-C10), Unadjusted	<7.87	mg/kg	7.87	2.63	1	11/17/20 14:49	11/24/20 19:46	TPHC9C10A	
Total VPH	<7.87	mg/kg	7.87	2.63	1	11/17/20 14:49	11/24/20 19:46	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	85.2	%	70.0-130		1	11/17/20 14:49	11/24/20 19:46	615-59-8FID	
2,5-Dibromotoluene (PID)	82.4	%	70.0-130		1	11/17/20 14:49	11/24/20 19:46	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<0.0788	mg/kg	0.0788	0.0575	1	11/17/20 14:49	11/24/20 02:11	67-64-1	
Acrylonitrile	<0.0197	mg/kg	0.0197	0.00569	1	11/17/20 14:49	11/24/20 02:11	107-13-1	
Benzene	0.00616	mg/kg	0.00158	0.000736	1	11/17/20 14:49	11/24/20 02:11	71-43-2	
Bromobenzene	<0.0197	mg/kg	0.0197	0.00142	1	11/17/20 14:49	11/24/20 02:11	108-86-1	
Bromodichloromethane	<0.00394	mg/kg	0.00394	0.00114	1	11/17/20 14:49	11/24/20 02:11	75-27-4	
Bromoform	<0.0394	mg/kg	0.0394	0.00184	1	11/17/20 14:49	11/24/20 02:11	75-25-2	
Bromomethane	<0.0197	mg/kg	0.0197	0.00311	1	11/17/20 14:49	11/24/20 02:11	74-83-9	
n-Butylbenzene	<0.0197	mg/kg	0.0197	0.00828	1	11/17/20 14:49	11/24/20 02:11	104-51-8	
sec-Butylbenzene	<0.0197	mg/kg	0.0197	0.00454	1	11/17/20 14:49	11/24/20 02:11	135-98-8	
tert-Butylbenzene	<0.00788	mg/kg	0.00788	0.00307	1	11/17/20 14:49	11/24/20 02:11	98-06-6	
Carbon tetrachloride	<0.00788	mg/kg	0.00788	0.00142	1	11/17/20 14:49	11/24/20 02:11	56-23-5	
Chlorobenzene	<0.00394	mg/kg	0.00394	0.000331	1	11/17/20 14:49	11/24/20 02:11	108-90-7	
Dibromochloromethane	<0.00394	mg/kg	0.00394	0.000965	1	11/17/20 14:49	11/24/20 02:11	124-48-1	
Chloroethane	<0.00788	mg/kg	0.00788	0.00268	1	11/17/20 14:49	11/24/20 02:11	75-00-3	
Chloroform	<0.00394	mg/kg	0.00394	0.00162	1	11/17/20 14:49	11/24/20 02:11	67-66-3	
Chloromethane	<0.0197	mg/kg	0.0197	0.00686	1	11/17/20 14:49	11/24/20 02:11	74-87-3	
2-Chlorotoluene	<0.00394	mg/kg	0.00394	0.00136	1	11/17/20 14:49	11/24/20 02:11	95-49-8	
4-Chlorotoluene	<0.00788	mg/kg	0.00788	0.000709	1	11/17/20 14:49	11/24/20 02:11	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0394	mg/kg	0.0394	0.00615	1	11/17/20 14:49	11/24/20 02:11	96-12-8	
1,2-Dibromoethane (EDB)	<0.00394	mg/kg	0.00394	0.00102	1	11/17/20 14:49	11/24/20 02:11	106-93-4	
Dibromomethane	<0.00788	mg/kg	0.00788	0.00118	1	11/17/20 14:49	11/24/20 02:11	74-95-3	
1,2-Dichlorobenzene	<0.00788	mg/kg	0.00788	0.000670	1	11/17/20 14:49	11/24/20 02:11	95-50-1	
1,3-Dichlorobenzene	<0.00788	mg/kg	0.00788	0.000946	1	11/17/20 14:49	11/24/20 02:11	541-73-1	
1,4-Dichlorobenzene	<0.00788	mg/kg	0.00788	0.00110	1	11/17/20 14:49	11/24/20 02:11	106-46-7	
Dichlorodifluoromethane	<0.00394	mg/kg	0.00394	0.00254	1	11/17/20 14:49	11/24/20 02:11	75-71-8	
1,1-Dichloroethane	<0.00394	mg/kg	0.00394	0.000774	1	11/17/20 14:49	11/24/20 02:11	75-34-3	
1,2-Dichloroethane	<0.00394	mg/kg	0.00394	0.00102	1	11/17/20 14:49	11/24/20 02:11	107-06-2	
1,1-Dichloroethene	<0.00394	mg/kg	0.00394	0.000955	1	11/17/20 14:49	11/24/20 02:11	75-35-4	
cis-1,2-Dichloroethene	<0.00394	mg/kg	0.00394	0.00116	1	11/17/20 14:49	11/24/20 02:11	156-59-2	
trans-1,2-Dichloroethene	<0.00788	mg/kg	0.00788	0.00164	1	11/17/20 14:49	11/24/20 02:11	156-60-5	
1,2-Dichloropropane	<0.00788	mg/kg	0.00788	0.00224	1	11/17/20 14:49	11/24/20 02:11	78-87-5	
1,1-Dichloropropene	<0.00394	mg/kg	0.00394	0.00128	1	11/17/20 14:49	11/24/20 02:11	563-58-6	
1,3-Dichloropropane	<0.00788	mg/kg	0.00788	0.000790	1	11/17/20 14:49	11/24/20 02:11	142-28-9	
cis-1,3-Dichloropropene	<0.00394	mg/kg	0.00394	0.00119	1	11/17/20 14:49	11/24/20 02:11	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 350-E**      **Lab ID: 92506678021**      Collected: 11/17/20 14:49      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00788	mg/kg	0.00788	0.00180	1	11/17/20 14:49	11/24/20 02:11	10061-02-6	
2,2-Dichloropropane	<0.00394	mg/kg	0.00394	0.00218	1	11/17/20 14:49	11/24/20 02:11	594-20-7	
Diisopropyl ether	<0.00158	mg/kg	0.00158	0.000646	1	11/17/20 14:49	11/24/20 02:11	108-20-3	
Ethylbenzene	<0.00394	mg/kg	0.00394	0.00116	1	11/17/20 14:49	11/24/20 02:11	100-41-4	
Hexachloro-1,3-butadiene	<0.0394	mg/kg	0.0394	0.00946	1	11/17/20 14:49	11/24/20 02:11	87-68-3	
Isopropylbenzene (Cumene)	<0.00394	mg/kg	0.00394	0.000670	1	11/17/20 14:49	11/24/20 02:11	98-82-8	
p-Isopropyltoluene	<0.00788	mg/kg	0.00788	0.00402	1	11/17/20 14:49	11/24/20 02:11	99-87-6	
2-Butanone (MEK)	<0.158	mg/kg	0.158	0.100	1	11/17/20 14:49	11/24/20 02:11	78-93-3	
Methylene Chloride	<0.0394	mg/kg	0.0394	0.0105	1	11/17/20 14:49	11/24/20 02:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0394	mg/kg	0.0394	0.00359	1	11/17/20 14:49	11/24/20 02:11	108-10-1	
Methyl-tert-butyl ether	<0.00158	mg/kg	0.00158	0.000552	1	11/17/20 14:49	11/24/20 02:11	1634-04-4	
Naphthalene	<0.0197	mg/kg	0.0197	0.00769	1	11/17/20 14:49	11/24/20 02:11	91-20-3	
n-Propylbenzene	<0.00788	mg/kg	0.00788	0.00150	1	11/17/20 14:49	11/24/20 02:11	103-65-1	
Styrene	<0.0197	mg/kg	0.0197	0.000361	1	11/17/20 14:49	11/24/20 02:11	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00394	mg/kg	0.00394	0.00149	1	11/17/20 14:49	11/24/20 02:11	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00394	mg/kg	0.00394	0.00110	1	11/17/20 14:49	11/24/20 02:11	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00394	mg/kg	0.00394	0.00119	1	11/17/20 14:49	11/24/20 02:11	76-13-1	
Tetrachloroethene	<0.00394	mg/kg	0.00394	0.00141	1	11/17/20 14:49	11/24/20 02:11	127-18-4	
Toluene	0.00708J	mg/kg	0.00788	0.00205	1	11/17/20 14:49	11/24/20 02:11	108-88-3	J
1,2,3-Trichlorobenzene	<0.0197	mg/kg	0.0197	0.0116	1	11/17/20 14:49	11/24/20 02:11	87-61-6	C4,R1
1,2,4-Trichlorobenzene	<0.0197	mg/kg	0.0197	0.00694	1	11/17/20 14:49	11/24/20 02:11	120-82-1	
1,1,1-Trichloroethane	<0.00394	mg/kg	0.00394	0.00145	1	11/17/20 14:49	11/24/20 02:11	71-55-6	
1,1,2-Trichloroethane	<0.00394	mg/kg	0.00394	0.000941	1	11/17/20 14:49	11/24/20 02:11	79-00-5	
Trichloroethene	<0.00158	mg/kg	0.00158	0.000921	1	11/17/20 14:49	11/24/20 02:11	79-01-6	
Trichlorofluoromethane	<0.00394	mg/kg	0.00394	0.00130	1	11/17/20 14:49	11/24/20 02:11	75-69-4	
1,2,3-Trichloropropane	<0.0197	mg/kg	0.0197	0.00255	1	11/17/20 14:49	11/24/20 02:11	96-18-4	
1,2,4-Trimethylbenzene	<0.00788	mg/kg	0.00788	0.00249	1	11/17/20 14:49	11/24/20 02:11	95-63-6	
1,2,3-Trimethylbenzene	<0.00788	mg/kg	0.00788	0.00249	1	11/17/20 14:49	11/24/20 02:11	526-73-8	
1,3,5-Trimethylbenzene	<0.00788	mg/kg	0.00788	0.00315	1	11/17/20 14:49	11/24/20 02:11	108-67-8	
Vinyl chloride	<0.00394	mg/kg	0.00394	0.00183	1	11/17/20 14:49	11/24/20 02:11	75-01-4	
Xylene (Total)	0.00252J	mg/kg	0.0102	0.00139	1	11/17/20 14:49	11/24/20 02:11	1330-20-7	B,J
<b>Surrogates</b>									
Toluene-d8 (S)	112	%	75.0-131		1	11/17/20 14:49	11/24/20 02:11	2037-26-5	
4-Bromofluorobenzene (S)	90.2	%	67.0-138		1	11/17/20 14:49	11/24/20 02:11	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130		1	11/17/20 14:49	11/24/20 02:11	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids      **78.2**      %      1      11/25/20 05:35      11/25/20 05:43

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 375-W**      **Lab ID: 92506678022**      Collected: 11/17/20 11:22      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<8.21	mg/kg	8.21	2.74	1.02	11/17/20 11:22	11/24/20 20:20		
Aliphatic (C09-C12)	<8.21	mg/kg	8.21	2.74	1.02	11/17/20 11:22	11/24/20 20:20		
Aromatic (C09-C10), Unadjusted	<8.21	mg/kg	8.21	2.74	1.02	11/17/20 11:22	11/24/20 20:20	TPHC9C10A	
Total VPH	<8.21	mg/kg	8.21	2.74	1.02	11/17/20 11:22	11/24/20 20:20	VPH	
<b>Surrogates</b>									
2,5-Dibromotoluene (FID)	85.1	%	70.0-130		1.02	11/17/20 11:22	11/24/20 20:20	615-59-8FID	
2,5-Dibromotoluene (PID)	81.6	%	70.0-130		1.02	11/17/20 11:22	11/24/20 20:20	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
Acetone	<0.0813	mg/kg	0.0813	0.0594	1.01	11/17/20 11:22	11/24/20 02:31	67-64-1	
Acrylonitrile	<0.0203	mg/kg	0.0203	0.00588	1.01	11/17/20 11:22	11/24/20 02:31	107-13-1	
Benzene	0.00845	mg/kg	0.00163	0.000760	1.01	11/17/20 11:22	11/24/20 02:31	71-43-2	
Bromobenzene	<0.0203	mg/kg	0.0203	0.00146	1.01	11/17/20 11:22	11/24/20 02:31	108-86-1	
Bromodichloromethane	<0.00407	mg/kg	0.00407	0.00118	1.01	11/17/20 11:22	11/24/20 02:31	75-27-4	
Bromoform	<0.0407	mg/kg	0.0407	0.00190	1.01	11/17/20 11:22	11/24/20 02:31	75-25-2	
Bromomethane	<0.0203	mg/kg	0.0203	0.00320	1.01	11/17/20 11:22	11/24/20 02:31	74-83-9	
n-Butylbenzene	<0.0203	mg/kg	0.0203	0.00854	1.01	11/17/20 11:22	11/24/20 02:31	104-51-8	
sec-Butylbenzene	<0.0203	mg/kg	0.0203	0.00469	1.01	11/17/20 11:22	11/24/20 02:31	135-98-8	
tert-Butylbenzene	<0.00813	mg/kg	0.00813	0.00317	1.01	11/17/20 11:22	11/24/20 02:31	98-06-6	
Carbon tetrachloride	<0.00813	mg/kg	0.00813	0.00146	1.01	11/17/20 11:22	11/24/20 02:31	56-23-5	
Chlorobenzene	<0.00407	mg/kg	0.00407	0.000341	1.01	11/17/20 11:22	11/24/20 02:31	108-90-7	
Dibromochloromethane	<0.00407	mg/kg	0.00407	0.000995	1.01	11/17/20 11:22	11/24/20 02:31	124-48-1	
Chloroethane	<0.00813	mg/kg	0.00813	0.00277	1.01	11/17/20 11:22	11/24/20 02:31	75-00-3	
Chloroform	<0.00407	mg/kg	0.00407	0.00167	1.01	11/17/20 11:22	11/24/20 02:31	67-66-3	
Chloromethane	<0.0203	mg/kg	0.0203	0.00707	1.01	11/17/20 11:22	11/24/20 02:31	74-87-3	
2-Chlorotoluene	<0.00407	mg/kg	0.00407	0.00141	1.01	11/17/20 11:22	11/24/20 02:31	95-49-8	
4-Chlorotoluene	<0.00813	mg/kg	0.00813	0.000733	1.01	11/17/20 11:22	11/24/20 02:31	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0407	mg/kg	0.0407	0.00635	1.01	11/17/20 11:22	11/24/20 02:31	96-12-8	
1,2-Dibromoethane (EDB)	<0.00407	mg/kg	0.00407	0.00105	1.01	11/17/20 11:22	11/24/20 02:31	106-93-4	
Dibromomethane	<0.00813	mg/kg	0.00813	0.00122	1.01	11/17/20 11:22	11/24/20 02:31	74-95-3	
1,2-Dichlorobenzene	<0.00813	mg/kg	0.00813	0.000691	1.01	11/17/20 11:22	11/24/20 02:31	95-50-1	
1,3-Dichlorobenzene	<0.00813	mg/kg	0.00813	0.000976	1.01	11/17/20 11:22	11/24/20 02:31	541-73-1	
1,4-Dichlorobenzene	<0.00813	mg/kg	0.00813	0.00114	1.01	11/17/20 11:22	11/24/20 02:31	106-46-7	
Dichlorodifluoromethane	<0.00407	mg/kg	0.00407	0.00263	1.01	11/17/20 11:22	11/24/20 02:31	75-71-8	
1,1-Dichloroethane	<0.00407	mg/kg	0.00407	0.000799	1.01	11/17/20 11:22	11/24/20 02:31	75-34-3	
1,2-Dichloroethane	<0.00407	mg/kg	0.00407	0.00105	1.01	11/17/20 11:22	11/24/20 02:31	107-06-2	
1,1-Dichloroethene	<0.00407	mg/kg	0.00407	0.000986	1.01	11/17/20 11:22	11/24/20 02:31	75-35-4	
cis-1,2-Dichloroethene	<0.00407	mg/kg	0.00407	0.00119	1.01	11/17/20 11:22	11/24/20 02:31	156-59-2	
trans-1,2-Dichloroethene	<0.00813	mg/kg	0.00813	0.00169	1.01	11/17/20 11:22	11/24/20 02:31	156-60-5	
1,2-Dichloropropane	<0.00813	mg/kg	0.00813	0.00230	1.01	11/17/20 11:22	11/24/20 02:31	78-87-5	
1,1-Dichloropropene	<0.00407	mg/kg	0.00407	0.00132	1.01	11/17/20 11:22	11/24/20 02:31	563-58-6	
1,3-Dichloropropane	<0.00813	mg/kg	0.00813	0.000815	1.01	11/17/20 11:22	11/24/20 02:31	142-28-9	
cis-1,3-Dichloropropene	<0.00407	mg/kg	0.00407	0.00123	1.01	11/17/20 11:22	11/24/20 02:31	10061-01-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

Sample: 375-W Lab ID: 92506678022 Collected: 11/17/20 11:22 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00813	mg/kg	0.00813	0.00185	1.01	11/17/20 11:22	11/24/20 02:31	10061-02-6	
2,2-Dichloropropane	<0.00407	mg/kg	0.00407	0.00224	1.01	11/17/20 11:22	11/24/20 02:31	594-20-7	
Diisopropyl ether	<0.00163	mg/kg	0.00163	0.000667	1.01	11/17/20 11:22	11/24/20 02:31	108-20-3	
Ethylbenzene	<0.00407	mg/kg	0.00407	0.00120	1.01	11/17/20 11:22	11/24/20 02:31	100-41-4	
Hexachloro-1,3-butadiene	<0.0407	mg/kg	0.0407	0.00976	1.01	11/17/20 11:22	11/24/20 02:31	87-68-3	
Isopropylbenzene (Cumene)	<0.00407	mg/kg	0.00407	0.000691	1.01	11/17/20 11:22	11/24/20 02:31	98-82-8	
p-Isopropyltoluene	<0.00813	mg/kg	0.00813	0.00415	1.01	11/17/20 11:22	11/24/20 02:31	99-87-6	
2-Butanone (MEK)	<0.163	mg/kg	0.163	0.103	1.01	11/17/20 11:22	11/24/20 02:31	78-93-3	
Methylene Chloride	<0.0407	mg/kg	0.0407	0.0108	1.01	11/17/20 11:22	11/24/20 02:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0407	mg/kg	0.0407	0.00370	1.01	11/17/20 11:22	11/24/20 02:31	108-10-1	
Methyl-tert-butyl ether	0.000610J	mg/kg	0.00163	0.000568	1.01	11/17/20 11:22	11/24/20 02:31	1634-04-4	J
Naphthalene	<0.0203	mg/kg	0.0203	0.00794	1.01	11/17/20 11:22	11/24/20 02:31	91-20-3	
n-Propylbenzene	<0.00813	mg/kg	0.00813	0.00154	1.01	11/17/20 11:22	11/24/20 02:31	103-65-1	
Styrene	<0.0203	mg/kg	0.0203	0.000372	1.01	11/17/20 11:22	11/24/20 02:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00407	mg/kg	0.00407	0.00154	1.01	11/17/20 11:22	11/24/20 02:31	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00407	mg/kg	0.00407	0.00113	1.01	11/17/20 11:22	11/24/20 02:31	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00407	mg/kg	0.00407	0.00123	1.01	11/17/20 11:22	11/24/20 02:31	76-13-1	
Tetrachloroethene	<0.00407	mg/kg	0.00407	0.00146	1.01	11/17/20 11:22	11/24/20 02:31	127-18-4	
Toluene	0.0192	mg/kg	0.00813	0.00211	1.01	11/17/20 11:22	11/24/20 02:31	108-88-3	
1,2,3-Trichlorobenzene	<0.0203	mg/kg	0.0203	0.0119	1.01	11/17/20 11:22	11/24/20 02:31	87-61-6	C4,R1
1,2,4-Trichlorobenzene	<0.0203	mg/kg	0.0203	0.00715	1.01	11/17/20 11:22	11/24/20 02:31	120-82-1	
1,1,1-Trichloroethane	<0.00407	mg/kg	0.00407	0.00150	1.01	11/17/20 11:22	11/24/20 02:31	71-55-6	
1,1,2-Trichloroethane	<0.00407	mg/kg	0.00407	0.000971	1.01	11/17/20 11:22	11/24/20 02:31	79-00-5	
Trichloroethene	<0.00163	mg/kg	0.00163	0.000950	1.01	11/17/20 11:22	11/24/20 02:31	79-01-6	
Trichlorofluoromethane	<0.00407	mg/kg	0.00407	0.00134	1.01	11/17/20 11:22	11/24/20 02:31	75-69-4	
1,2,3-Trichloropropane	<0.0203	mg/kg	0.0203	0.00264	1.01	11/17/20 11:22	11/24/20 02:31	96-18-4	
1,2,4-Trimethylbenzene	<0.00813	mg/kg	0.00813	0.00258	1.01	11/17/20 11:22	11/24/20 02:31	95-63-6	
1,2,3-Trimethylbenzene	0.00320J	mg/kg	0.00813	0.00258	1.01	11/17/20 11:22	11/24/20 02:31	526-73-8	J
1,3,5-Trimethylbenzene	<0.00813	mg/kg	0.00813	0.00325	1.01	11/17/20 11:22	11/24/20 02:31	108-67-8	
Vinyl chloride	<0.00407	mg/kg	0.00407	0.00188	1.01	11/17/20 11:22	11/24/20 02:31	75-01-4	
Xylene (Total)	0.0115	mg/kg	0.0106	0.00143	1.01	11/17/20 11:22	11/24/20 02:31	1330-20-7	B
<b>Surrogates</b>									
Toluene-d8 (S)	109	%	75.0-131		1.01	11/17/20 11:22	11/24/20 02:31	2037-26-5	
4-Bromofluorobenzene (S)	91.3	%	67.0-138		1.01	11/17/20 11:22	11/24/20 02:31	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130		1.01	11/17/20 11:22	11/24/20 02:31	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids 76.5 % 1 11/26/20 06:55 11/26/20 07:55

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 375-B**      **Lab ID: 92506678023**      Collected: 11/17/20 11:20      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>4.45J</b>	mg/kg	8.76	2.92	1	11/17/20 11:20	11/24/20 20:53		J
Aliphatic (C09-C12)	<b>&lt;8.76</b>	mg/kg	8.76	2.92	1	11/17/20 11:20	11/24/20 20:53		
Aromatic (C09-C10), Unadjusted	<b>&lt;8.76</b>	mg/kg	8.76	2.92	1	11/17/20 11:20	11/24/20 20:53	TPHC9C10A	
Total VPH	<b>4.45J</b>	mg/kg	8.76	2.92	1	11/17/20 11:20	11/24/20 20:53	VPH	J

**Surrogates**

2,5-Dibromotoluene (FID)	88.0	%	70.0-130		1	11/17/20 11:20	11/24/20 20:53	615-59-8FID	
2,5-Dibromotoluene (PID)	85.6	%	70.0-130		1	11/17/20 11:20	11/24/20 20:53	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<b>&lt;0.103</b>	mg/kg	0.103	0.0752	1.24	11/17/20 11:20	11/24/20 02:50	67-64-1	
Acrylonitrile	<b>&lt;0.0257</b>	mg/kg	0.0257	0.00744	1.24	11/17/20 11:20	11/24/20 02:50	107-13-1	
Benzene	<b>0.00365</b>	mg/kg	0.00206	0.000961	1.24	11/17/20 11:20	11/24/20 02:50	71-43-2	
Bromobenzene	<b>&lt;0.0257</b>	mg/kg	0.0257	0.00186	1.24	11/17/20 11:20	11/24/20 02:50	108-86-1	
Bromodichloromethane	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00149	1.24	11/17/20 11:20	11/24/20 02:50	75-27-4	
Bromoform	<b>&lt;0.0515</b>	mg/kg	0.0515	0.00241	1.24	11/17/20 11:20	11/24/20 02:50	75-25-2	
Bromomethane	<b>&lt;0.0257</b>	mg/kg	0.0257	0.00405	1.24	11/17/20 11:20	11/24/20 02:50	74-83-9	
n-Butylbenzene	<b>&lt;0.0257</b>	mg/kg	0.0257	0.0108	1.24	11/17/20 11:20	11/24/20 02:50	104-51-8	
sec-Butylbenzene	<b>&lt;0.0257</b>	mg/kg	0.0257	0.00593	1.24	11/17/20 11:20	11/24/20 02:50	135-98-8	
tert-Butylbenzene	<b>&lt;0.0103</b>	mg/kg	0.0103	0.00402	1.24	11/17/20 11:20	11/24/20 02:50	98-06-6	
Carbon tetrachloride	<b>&lt;0.0103</b>	mg/kg	0.0103	0.00184	1.24	11/17/20 11:20	11/24/20 02:50	56-23-5	
Chlorobenzene	<b>&lt;0.00515</b>	mg/kg	0.00515	0.000432	1.24	11/17/20 11:20	11/24/20 02:50	108-90-7	
Dibromochloromethane	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00126	1.24	11/17/20 11:20	11/24/20 02:50	124-48-1	
Chloroethane	<b>&lt;0.0103</b>	mg/kg	0.0103	0.00350	1.24	11/17/20 11:20	11/24/20 02:50	75-00-3	
Chloroform	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00212	1.24	11/17/20 11:20	11/24/20 02:50	67-66-3	
Chloromethane	<b>&lt;0.0257</b>	mg/kg	0.0257	0.00895	1.24	11/17/20 11:20	11/24/20 02:50	74-87-3	
2-Chlorotoluene	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00178	1.24	11/17/20 11:20	11/24/20 02:50	95-49-8	
4-Chlorotoluene	<b>&lt;0.0103</b>	mg/kg	0.0103	0.000926	1.24	11/17/20 11:20	11/24/20 02:50	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0515</b>	mg/kg	0.0515	0.00803	1.24	11/17/20 11:20	11/24/20 02:50	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00133	1.24	11/17/20 11:20	11/24/20 02:50	106-93-4	
Dibromomethane	<b>&lt;0.0103</b>	mg/kg	0.0103	0.00154	1.24	11/17/20 11:20	11/24/20 02:50	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.0103</b>	mg/kg	0.0103	0.000875	1.24	11/17/20 11:20	11/24/20 02:50	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.0103</b>	mg/kg	0.0103	0.00123	1.24	11/17/20 11:20	11/24/20 02:50	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.0103</b>	mg/kg	0.0103	0.00144	1.24	11/17/20 11:20	11/24/20 02:50	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00332	1.24	11/17/20 11:20	11/24/20 02:50	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00101	1.24	11/17/20 11:20	11/24/20 02:50	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00134	1.24	11/17/20 11:20	11/24/20 02:50	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00125	1.24	11/17/20 11:20	11/24/20 02:50	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00151	1.24	11/17/20 11:20	11/24/20 02:50	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.0103</b>	mg/kg	0.0103	0.00214	1.24	11/17/20 11:20	11/24/20 02:50	156-60-5	
1,2-Dichloropropane	<b>&lt;0.0103</b>	mg/kg	0.0103	0.00292	1.24	11/17/20 11:20	11/24/20 02:50	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00166	1.24	11/17/20 11:20	11/24/20 02:50	563-58-6	
1,3-Dichloropropane	<b>&lt;0.0103</b>	mg/kg	0.0103	0.00103	1.24	11/17/20 11:20	11/24/20 02:50	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.00515</b>	mg/kg	0.00515	0.00156	1.24	11/17/20 11:20	11/24/20 02:50	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 375-B**      **Lab ID: 92506678023**      Collected: 11/17/20 11:20      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.0103	mg/kg	0.0103	0.00234	1.24	11/17/20 11:20	11/24/20 02:50	10061-02-6	
2,2-Dichloropropane	<0.00515	mg/kg	0.00515	0.00284	1.24	11/17/20 11:20	11/24/20 02:50	594-20-7	
Diisopropyl ether	<0.00206	mg/kg	0.00206	0.000843	1.24	11/17/20 11:20	11/24/20 02:50	108-20-3	
Ethylbenzene	<0.00515	mg/kg	0.00515	0.00152	1.24	11/17/20 11:20	11/24/20 02:50	100-41-4	
Hexachloro-1,3-butadiene	<0.0515	mg/kg	0.0515	0.0123	1.24	11/17/20 11:20	11/24/20 02:50	87-68-3	
Isopropylbenzene (Cumene)	<0.00515	mg/kg	0.00515	0.000875	1.24	11/17/20 11:20	11/24/20 02:50	98-82-8	
p-Isopropyltoluene	<0.0103	mg/kg	0.0103	0.00525	1.24	11/17/20 11:20	11/24/20 02:50	99-87-6	
2-Butanone (MEK)	<0.206	mg/kg	0.206	0.131	1.24	11/17/20 11:20	11/24/20 02:50	78-93-3	
Methylene Chloride	<0.0515	mg/kg	0.0515	0.0137	1.24	11/17/20 11:20	11/24/20 02:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0515	mg/kg	0.0515	0.00470	1.24	11/17/20 11:20	11/24/20 02:50	108-10-1	
Methyl-tert-butyl ether	<0.00206	mg/kg	0.00206	0.000720	1.24	11/17/20 11:20	11/24/20 02:50	1634-04-4	
Naphthalene	<0.0257	mg/kg	0.0257	0.0100	1.24	11/17/20 11:20	11/24/20 02:50	91-20-3	
n-Propylbenzene	<0.0103	mg/kg	0.0103	0.00196	1.24	11/17/20 11:20	11/24/20 02:50	103-65-1	
Styrene	<0.0257	mg/kg	0.0257	0.000471	1.24	11/17/20 11:20	11/24/20 02:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00515	mg/kg	0.00515	0.00196	1.24	11/17/20 11:20	11/24/20 02:50	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00515	mg/kg	0.00515	0.00143	1.24	11/17/20 11:20	11/24/20 02:50	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00515	mg/kg	0.00515	0.00155	1.24	11/17/20 11:20	11/24/20 02:50	76-13-1	
Tetrachloroethene	<0.00515	mg/kg	0.00515	0.00184	1.24	11/17/20 11:20	11/24/20 02:50	127-18-4	
Toluene	0.00875J	mg/kg	0.0103	0.00267	1.24	11/17/20 11:20	11/24/20 02:50	108-88-3	J
1,2,3-Trichlorobenzene	<0.0257	mg/kg	0.0257	0.0151	1.24	11/17/20 11:20	11/24/20 02:50	87-61-6	C4,R1
1,2,4-Trichlorobenzene	<0.0257	mg/kg	0.0257	0.00906	1.24	11/17/20 11:20	11/24/20 02:50	120-82-1	
1,1,1-Trichloroethane	<0.00515	mg/kg	0.00515	0.00189	1.24	11/17/20 11:20	11/24/20 02:50	71-55-6	
1,1,2-Trichloroethane	<0.00515	mg/kg	0.00515	0.00123	1.24	11/17/20 11:20	11/24/20 02:50	79-00-5	
Trichloroethene	<0.00206	mg/kg	0.00206	0.00120	1.24	11/17/20 11:20	11/24/20 02:50	79-01-6	
Trichlorofluoromethane	<0.00515	mg/kg	0.00515	0.00171	1.24	11/17/20 11:20	11/24/20 02:50	75-69-4	
1,2,3-Trichloropropane	<0.0257	mg/kg	0.0257	0.00334	1.24	11/17/20 11:20	11/24/20 02:50	96-18-4	
1,2,4-Trimethylbenzene	0.00345J	mg/kg	0.0103	0.00325	1.24	11/17/20 11:20	11/24/20 02:50	95-63-6	B,J
1,2,3-Trimethylbenzene	<0.0103	mg/kg	0.0103	0.00325	1.24	11/17/20 11:20	11/24/20 02:50	526-73-8	
1,3,5-Trimethylbenzene	<0.0103	mg/kg	0.0103	0.00412	1.24	11/17/20 11:20	11/24/20 02:50	108-67-8	
Vinyl chloride	<0.00515	mg/kg	0.00515	0.00239	1.24	11/17/20 11:20	11/24/20 02:50	75-01-4	
Xylene (Total)	0.00679J	mg/kg	0.0134	0.00181	1.24	11/17/20 11:20	11/24/20 02:50	1330-20-7	B,J
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		1.24	11/17/20 11:20	11/24/20 02:50	2037-26-5	
4-Bromofluorobenzene (S)	88.8	%	67.0-138		1.24	11/17/20 11:20	11/24/20 02:50	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130		1.24	11/17/20 11:20	11/24/20 02:50	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids      **73.3**      %      1      11/26/20 06:55      11/26/20 07:55

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 375-E**      **Lab ID: 92506678024**      Collected: 11/17/20 14:50      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEP VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<b>4.46J</b>	mg/kg	8.93	2.98	1.05	11/17/20 14:50	11/24/20 21:26		J
Aliphatic (C09-C12)	<b>&lt;8.93</b>	mg/kg	8.93	2.98	1.05	11/17/20 14:50	11/24/20 21:26		
Aromatic (C09-C10), Unadjusted	<b>&lt;8.93</b>	mg/kg	8.93	2.98	1.05	11/17/20 14:50	11/24/20 21:26	TPHC9C10A	
Total VPH	<b>4.46J</b>	mg/kg	8.93	2.98	1.05	11/17/20 14:50	11/24/20 21:26	VPH	J

**Surrogates**

2,5-Dibromotoluene (FID)	87.2	%	70.0-130		1.05	11/17/20 14:50	11/24/20 21:26	615-59-8FID	
2,5-Dibromotoluene (PID)	83.6	%	70.0-130		1.05	11/17/20 14:50	11/24/20 21:26	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	<b>&lt;0.0915</b>	mg/kg	0.0915	0.0668	1.08	11/17/20 14:50	11/24/20 03:09	67-64-1	
Acrylonitrile	<b>&lt;0.0229</b>	mg/kg	0.0229	0.00661	1.08	11/17/20 14:50	11/24/20 03:09	107-13-1	
Benzene	<b>0.0310</b>	mg/kg	0.00183	0.000854	1.08	11/17/20 14:50	11/24/20 03:09	71-43-2	
Bromobenzene	<b>&lt;0.0229</b>	mg/kg	0.0229	0.00165	1.08	11/17/20 14:50	11/24/20 03:09	108-86-1	
Bromodichloromethane	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00133	1.08	11/17/20 14:50	11/24/20 03:09	75-27-4	
Bromoform	<b>&lt;0.0458</b>	mg/kg	0.0458	0.00214	1.08	11/17/20 14:50	11/24/20 03:09	75-25-2	
Bromomethane	<b>&lt;0.0229</b>	mg/kg	0.0229	0.00361	1.08	11/17/20 14:50	11/24/20 03:09	74-83-9	
n-Butylbenzene	<b>&lt;0.0229</b>	mg/kg	0.0229	0.00961	1.08	11/17/20 14:50	11/24/20 03:09	104-51-8	
sec-Butylbenzene	<b>&lt;0.0229</b>	mg/kg	0.0229	0.00527	1.08	11/17/20 14:50	11/24/20 03:09	135-98-8	
tert-Butylbenzene	<b>&lt;0.00915</b>	mg/kg	0.00915	0.00358	1.08	11/17/20 14:50	11/24/20 03:09	98-06-6	
Carbon tetrachloride	<b>&lt;0.00915</b>	mg/kg	0.00915	0.00164	1.08	11/17/20 14:50	11/24/20 03:09	56-23-5	
Chlorobenzene	<b>&lt;0.00458</b>	mg/kg	0.00458	0.000385	1.08	11/17/20 14:50	11/24/20 03:09	108-90-7	
Dibromochloromethane	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00112	1.08	11/17/20 14:50	11/24/20 03:09	124-48-1	
Chloroethane	<b>&lt;0.00915</b>	mg/kg	0.00915	0.00312	1.08	11/17/20 14:50	11/24/20 03:09	75-00-3	
Chloroform	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00188	1.08	11/17/20 14:50	11/24/20 03:09	67-66-3	
Chloromethane	<b>&lt;0.0229</b>	mg/kg	0.0229	0.00797	1.08	11/17/20 14:50	11/24/20 03:09	74-87-3	
2-Chlorotoluene	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00158	1.08	11/17/20 14:50	11/24/20 03:09	95-49-8	
4-Chlorotoluene	<b>&lt;0.00915</b>	mg/kg	0.00915	0.000824	1.08	11/17/20 14:50	11/24/20 03:09	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;0.0458</b>	mg/kg	0.0458	0.00714	1.08	11/17/20 14:50	11/24/20 03:09	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00119	1.08	11/17/20 14:50	11/24/20 03:09	106-93-4	
Dibromomethane	<b>&lt;0.00915</b>	mg/kg	0.00915	0.00137	1.08	11/17/20 14:50	11/24/20 03:09	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.00915</b>	mg/kg	0.00915	0.000778	1.08	11/17/20 14:50	11/24/20 03:09	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.00915</b>	mg/kg	0.00915	0.00110	1.08	11/17/20 14:50	11/24/20 03:09	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.00915</b>	mg/kg	0.00915	0.00128	1.08	11/17/20 14:50	11/24/20 03:09	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00295	1.08	11/17/20 14:50	11/24/20 03:09	75-71-8	
1,1-Dichloroethane	<b>&lt;0.00458</b>	mg/kg	0.00458	0.000898	1.08	11/17/20 14:50	11/24/20 03:09	75-34-3	
1,2-Dichloroethane	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00119	1.08	11/17/20 14:50	11/24/20 03:09	107-06-2	
1,1-Dichloroethene	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00111	1.08	11/17/20 14:50	11/24/20 03:09	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00134	1.08	11/17/20 14:50	11/24/20 03:09	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.00915</b>	mg/kg	0.00915	0.00190	1.08	11/17/20 14:50	11/24/20 03:09	156-60-5	
1,2-Dichloropropane	<b>&lt;0.00915</b>	mg/kg	0.00915	0.00259	1.08	11/17/20 14:50	11/24/20 03:09	78-87-5	
1,1-Dichloropropene	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00148	1.08	11/17/20 14:50	11/24/20 03:09	563-58-6	
1,3-Dichloropropane	<b>&lt;0.00915</b>	mg/kg	0.00915	0.000917	1.08	11/17/20 14:50	11/24/20 03:09	142-28-9	
cis-1,3-Dichloropropene	<b>&lt;0.00458</b>	mg/kg	0.00458	0.00139	1.08	11/17/20 14:50	11/24/20 03:09	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

**Sample: 375-E**      **Lab ID: 92506678024**      Collected: 11/17/20 14:50      Received: 11/18/20 09:17      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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D    Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00915	mg/kg	0.00915	0.00208	1.08	11/17/20 14:50	11/24/20 03:09	10061-02-6	
2,2-Dichloropropane	<0.00458	mg/kg	0.00458	0.00253	1.08	11/17/20 14:50	11/24/20 03:09	594-20-7	
Diisopropyl ether	<0.00183	mg/kg	0.00183	0.000751	1.08	11/17/20 14:50	11/24/20 03:09	108-20-3	
Ethylbenzene	<0.00458	mg/kg	0.00458	0.00135	1.08	11/17/20 14:50	11/24/20 03:09	100-41-4	
Hexachloro-1,3-butadiene	<0.0458	mg/kg	0.0458	0.0110	1.08	11/17/20 14:50	11/24/20 03:09	87-68-3	
Isopropylbenzene (Cumene)	<0.00458	mg/kg	0.00458	0.000778	1.08	11/17/20 14:50	11/24/20 03:09	98-82-8	
p-Isopropyltoluene	<0.00915	mg/kg	0.00915	0.00466	1.08	11/17/20 14:50	11/24/20 03:09	99-87-6	
2-Butanone (MEK)	<0.183	mg/kg	0.183	0.116	1.08	11/17/20 14:50	11/24/20 03:09	78-93-3	
Methylene Chloride	<0.0458	mg/kg	0.0458	0.0122	1.08	11/17/20 14:50	11/24/20 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0458	mg/kg	0.0458	0.00417	1.08	11/17/20 14:50	11/24/20 03:09	108-10-1	
Methyl-tert-butyl ether	<0.00183	mg/kg	0.00183	0.000641	1.08	11/17/20 14:50	11/24/20 03:09	1634-04-4	
Naphthalene	<0.0229	mg/kg	0.0229	0.00893	1.08	11/17/20 14:50	11/24/20 03:09	91-20-3	
n-Propylbenzene	<0.00915	mg/kg	0.00915	0.00175	1.08	11/17/20 14:50	11/24/20 03:09	103-65-1	
Styrene	<0.0229	mg/kg	0.0229	0.000419	1.08	11/17/20 14:50	11/24/20 03:09	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00458	mg/kg	0.00458	0.00173	1.08	11/17/20 14:50	11/24/20 03:09	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00458	mg/kg	0.00458	0.00127	1.08	11/17/20 14:50	11/24/20 03:09	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00458	mg/kg	0.00458	0.00138	1.08	11/17/20 14:50	11/24/20 03:09	76-13-1	
Tetrachloroethene	<0.00458	mg/kg	0.00458	0.00164	1.08	11/17/20 14:50	11/24/20 03:09	127-18-4	
Toluene	0.0544	mg/kg	0.00915	0.00237	1.08	11/17/20 14:50	11/24/20 03:09	108-88-3	
1,2,3-Trichlorobenzene	<0.0229	mg/kg	0.0229	0.0134	1.08	11/17/20 14:50	11/24/20 03:09	87-61-6	C4,R1
1,2,4-Trichlorobenzene	<0.0229	mg/kg	0.0229	0.00805	1.08	11/17/20 14:50	11/24/20 03:09	120-82-1	
1,1,1-Trichloroethane	<0.00458	mg/kg	0.00458	0.00169	1.08	11/17/20 14:50	11/24/20 03:09	71-55-6	
1,1,2-Trichloroethane	<0.00458	mg/kg	0.00458	0.00109	1.08	11/17/20 14:50	11/24/20 03:09	79-00-5	
Trichloroethene	<0.00183	mg/kg	0.00183	0.00107	1.08	11/17/20 14:50	11/24/20 03:09	79-01-6	
Trichlorofluoromethane	<0.00458	mg/kg	0.00458	0.00151	1.08	11/17/20 14:50	11/24/20 03:09	75-69-4	
1,2,3-Trichloropropane	<0.0229	mg/kg	0.0229	0.00297	1.08	11/17/20 14:50	11/24/20 03:09	96-18-4	
1,2,4-Trimethylbenzene	0.00810J	mg/kg	0.00915	0.00290	1.08	11/17/20 14:50	11/24/20 03:09	95-63-6	B,J
1,2,3-Trimethylbenzene	0.00527J	mg/kg	0.00915	0.00290	1.08	11/17/20 14:50	11/24/20 03:09	526-73-8	J
1,3,5-Trimethylbenzene	<0.00915	mg/kg	0.00915	0.00366	1.08	11/17/20 14:50	11/24/20 03:09	108-67-8	
Vinyl chloride	<0.00458	mg/kg	0.00458	0.00212	1.08	11/17/20 14:50	11/24/20 03:09	75-01-4	
Xylene (Total)	0.0378	mg/kg	0.0119	0.00161	1.08	11/17/20 14:50	11/24/20 03:09	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		1.08	11/17/20 14:50	11/24/20 03:09	2037-26-5	
4-Bromofluorobenzene (S)	90.1	%	67.0-138		1.08	11/17/20 14:50	11/24/20 03:09	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130		1.08	11/17/20 14:50	11/24/20 03:09	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids      **73.5**      %      1      11/26/20 06:55      11/26/20 07:55

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506678

**Sample: North Wall**      **Lab ID: 92506678025**      Collected: 11/17/20 15:05      Received: 11/18/20 09:17      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>MADEPV</b>									
Analytical Method: MADEPV VPH    Preparation Method: MADEPV									
Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<8.65	mg/kg	8.65	2.87	1.06	11/17/20 15:05	11/24/20 21:59		
Aliphatic (C09-C12)	<8.65	mg/kg	8.65	2.87	1.06	11/17/20 15:05	11/24/20 21:59		
Aromatic (C09-C10), Unadjusted	<8.65	mg/kg	8.65	2.87	1.06	11/17/20 15:05	11/24/20 21:59	TPHC9C10A	
Total VPH	<8.65	mg/kg	8.65	2.87	1.06	11/17/20 15:05	11/24/20 21:59	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	86.5	%	70.0-130		1.06	11/17/20 15:05	11/24/20 21:59	615-59-8FID	
2,5-Dibromotoluene (PID)	82.7	%	70.0-130		1.06	11/17/20 15:05	11/24/20 21:59	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<0.0891	mg/kg	0.0891	0.0650	1.1	11/17/20 15:05	11/24/20 03:28	67-64-1	
Acrylonitrile	<0.0224	mg/kg	0.0224	0.00643	1.1	11/17/20 15:05	11/24/20 03:28	107-13-1	
Benzene	0.0203	mg/kg	0.00178	0.000833	1.1	11/17/20 15:05	11/24/20 03:28	71-43-2	
Bromobenzene	<0.0224	mg/kg	0.0224	0.00160	1.1	11/17/20 15:05	11/24/20 03:28	108-86-1	
Bromodichloromethane	<0.00446	mg/kg	0.00446	0.00129	1.1	11/17/20 15:05	11/24/20 03:28	75-27-4	
Bromoform	<0.0446	mg/kg	0.0446	0.00209	1.1	11/17/20 15:05	11/24/20 03:28	75-25-2	
Bromomethane	<0.0224	mg/kg	0.0224	0.00352	1.1	11/17/20 15:05	11/24/20 03:28	74-83-9	
n-Butylbenzene	<0.0224	mg/kg	0.0224	0.00937	1.1	11/17/20 15:05	11/24/20 03:28	104-51-8	
sec-Butylbenzene	<0.0224	mg/kg	0.0224	0.00514	1.1	11/17/20 15:05	11/24/20 03:28	135-98-8	
tert-Butylbenzene	<0.00891	mg/kg	0.00891	0.00348	1.1	11/17/20 15:05	11/24/20 03:28	98-06-6	
Carbon tetrachloride	<0.00891	mg/kg	0.00891	0.00160	1.1	11/17/20 15:05	11/24/20 03:28	56-23-5	
Chlorobenzene	<0.00446	mg/kg	0.00446	0.000374	1.1	11/17/20 15:05	11/24/20 03:28	108-90-7	
Dibromochloromethane	<0.00446	mg/kg	0.00446	0.00109	1.1	11/17/20 15:05	11/24/20 03:28	124-48-1	
Chloroethane	<0.00891	mg/kg	0.00891	0.00303	1.1	11/17/20 15:05	11/24/20 03:28	75-00-3	
Chloroform	<0.00446	mg/kg	0.00446	0.00183	1.1	11/17/20 15:05	11/24/20 03:28	67-66-3	
Chloromethane	<0.0224	mg/kg	0.0224	0.00776	1.1	11/17/20 15:05	11/24/20 03:28	74-87-3	
2-Chlorotoluene	<0.00446	mg/kg	0.00446	0.00154	1.1	11/17/20 15:05	11/24/20 03:28	95-49-8	
4-Chlorotoluene	<0.00891	mg/kg	0.00891	0.000802	1.1	11/17/20 15:05	11/24/20 03:28	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0446	mg/kg	0.0446	0.00695	1.1	11/17/20 15:05	11/24/20 03:28	96-12-8	
1,2-Dibromoethane (EDB)	<0.00446	mg/kg	0.00446	0.00116	1.1	11/17/20 15:05	11/24/20 03:28	106-93-4	
Dibromomethane	<0.00891	mg/kg	0.00891	0.00134	1.1	11/17/20 15:05	11/24/20 03:28	74-95-3	
1,2-Dichlorobenzene	<0.00891	mg/kg	0.00891	0.000759	1.1	11/17/20 15:05	11/24/20 03:28	95-50-1	
1,3-Dichlorobenzene	<0.00891	mg/kg	0.00891	0.00107	1.1	11/17/20 15:05	11/24/20 03:28	541-73-1	
1,4-Dichlorobenzene	<0.00891	mg/kg	0.00891	0.00125	1.1	11/17/20 15:05	11/24/20 03:28	106-46-7	
Dichlorodifluoromethane	<0.00446	mg/kg	0.00446	0.00287	1.1	11/17/20 15:05	11/24/20 03:28	75-71-8	
1,1-Dichloroethane	<0.00446	mg/kg	0.00446	0.000875	1.1	11/17/20 15:05	11/24/20 03:28	75-34-3	
1,2-Dichloroethane	<0.00446	mg/kg	0.00446	0.00116	1.1	11/17/20 15:05	11/24/20 03:28	107-06-2	
1,1-Dichloroethene	<0.00446	mg/kg	0.00446	0.00108	1.1	11/17/20 15:05	11/24/20 03:28	75-35-4	
cis-1,2-Dichloroethene	<0.00446	mg/kg	0.00446	0.00131	1.1	11/17/20 15:05	11/24/20 03:28	156-59-2	
trans-1,2-Dichloroethene	<0.00891	mg/kg	0.00891	0.00185	1.1	11/17/20 15:05	11/24/20 03:28	156-60-5	
1,2-Dichloropropane	<0.00891	mg/kg	0.00891	0.00253	1.1	11/17/20 15:05	11/24/20 03:28	78-87-5	
1,1-Dichloropropene	<0.00446	mg/kg	0.00446	0.00144	1.1	11/17/20 15:05	11/24/20 03:28	563-58-6	
1,3-Dichloropropane	<0.00891	mg/kg	0.00891	0.000893	1.1	11/17/20 15:05	11/24/20 03:28	142-28-9	
cis-1,3-Dichloropropene	<0.00446	mg/kg	0.00446	0.00135	1.1	11/17/20 15:05	11/24/20 03:28	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506678

Sample: North Wall Lab ID: 92506678025 Collected: 11/17/20 15:05 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.00891	mg/kg	0.00891	0.00203	1.1	11/17/20 15:05	11/24/20 03:28	10061-02-6	
2,2-Dichloropropane	<0.00446	mg/kg	0.00446	0.00246	1.1	11/17/20 15:05	11/24/20 03:28	594-20-7	
Diisopropyl ether	<0.00178	mg/kg	0.00178	0.000731	1.1	11/17/20 15:05	11/24/20 03:28	108-20-3	
Ethylbenzene	0.00665	mg/kg	0.00446	0.00131	1.1	11/17/20 15:05	11/24/20 03:28	100-41-4	
Hexachloro-1,3-butadiene	<0.0446	mg/kg	0.0446	0.0107	1.1	11/17/20 15:05	11/24/20 03:28	87-68-3	
Isopropylbenzene (Cumene)	<0.00446	mg/kg	0.00446	0.000759	1.1	11/17/20 15:05	11/24/20 03:28	98-82-8	
p-Isopropyltoluene	<0.00891	mg/kg	0.00891	0.00455	1.1	11/17/20 15:05	11/24/20 03:28	99-87-6	
2-Butanone (MEK)	<0.178	mg/kg	0.178	0.113	1.1	11/17/20 15:05	11/24/20 03:28	78-93-3	
Methylene Chloride	<0.0446	mg/kg	0.0446	0.0118	1.1	11/17/20 15:05	11/24/20 03:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.0446	mg/kg	0.0446	0.00407	1.1	11/17/20 15:05	11/24/20 03:28	108-10-1	
Methyl-tert-butyl ether	0.000981J	mg/kg	0.00178	0.000624	1.1	11/17/20 15:05	11/24/20 03:28	1634-04-4	J
Naphthalene	<0.0224	mg/kg	0.0224	0.00870	1.1	11/17/20 15:05	11/24/20 03:28	91-20-3	
n-Propylbenzene	<0.00891	mg/kg	0.00891	0.00170	1.1	11/17/20 15:05	11/24/20 03:28	103-65-1	
Styrene	<0.0224	mg/kg	0.0224	0.000408	1.1	11/17/20 15:05	11/24/20 03:28	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00446	mg/kg	0.00446	0.00169	1.1	11/17/20 15:05	11/24/20 03:28	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00446	mg/kg	0.00446	0.00124	1.1	11/17/20 15:05	11/24/20 03:28	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00446	mg/kg	0.00446	0.00134	1.1	11/17/20 15:05	11/24/20 03:28	76-13-1	
Tetrachloroethene	<0.00446	mg/kg	0.00446	0.00160	1.1	11/17/20 15:05	11/24/20 03:28	127-18-4	
Toluene	0.0666	mg/kg	0.00891	0.00232	1.1	11/17/20 15:05	11/24/20 03:28	108-88-3	
1,2,3-Trichlorobenzene	<0.0224	mg/kg	0.0224	0.0131	1.1	11/17/20 15:05	11/24/20 03:28	87-61-6	C4,R1
1,2,4-Trichlorobenzene	<0.0224	mg/kg	0.0224	0.00785	1.1	11/17/20 15:05	11/24/20 03:28	120-82-1	
1,1,1-Trichloroethane	<0.00446	mg/kg	0.00446	0.00165	1.1	11/17/20 15:05	11/24/20 03:28	71-55-6	
1,1,2-Trichloroethane	<0.00446	mg/kg	0.00446	0.00106	1.1	11/17/20 15:05	11/24/20 03:28	79-00-5	
Trichloroethene	<0.00178	mg/kg	0.00178	0.00104	1.1	11/17/20 15:05	11/24/20 03:28	79-01-6	
Trichlorofluoromethane	<0.00446	mg/kg	0.00446	0.00147	1.1	11/17/20 15:05	11/24/20 03:28	75-69-4	
1,2,3-Trichloropropane	<0.0224	mg/kg	0.0224	0.00289	1.1	11/17/20 15:05	11/24/20 03:28	96-18-4	
1,2,4-Trimethylbenzene	0.00441J	mg/kg	0.00891	0.00282	1.1	11/17/20 15:05	11/24/20 03:28	95-63-6	B,J
1,2,3-Trimethylbenzene	<0.00891	mg/kg	0.00891	0.00282	1.1	11/17/20 15:05	11/24/20 03:28	526-73-8	
1,3,5-Trimethylbenzene	<0.00891	mg/kg	0.00891	0.00357	1.1	11/17/20 15:05	11/24/20 03:28	108-67-8	
Vinyl chloride	<0.00446	mg/kg	0.00446	0.00207	1.1	11/17/20 15:05	11/24/20 03:28	75-01-4	
Xylene (Total)	0.0323	mg/kg	0.0116	0.00157	1.1	11/17/20 15:05	11/24/20 03:28	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	111	%	75.0-131		1.1	11/17/20 15:05	11/24/20 03:28	2037-26-5	
4-Bromofluorobenzene (S)	90.7	%	67.0-138		1.1	11/17/20 15:05	11/24/20 03:28	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130		1.1	11/17/20 15:05	11/24/20 03:28	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids 75.4 % 1 11/26/20 06:55 11/26/20 07:55

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### ANALYTICAL RESULTS

Project: 2020-LI-2448

Pace Project No.: 92506678

Sample: South Wall Lab ID: 92506678026 Collected: 11/17/20 15:00 Received: 11/18/20 09:17 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>MADEPV</b> Analytical Method: MADEPV VPH Preparation Method: MADEPV Pace National - Mt. Juliet									
Aliphatic (C05-C08)	<8.64	mg/kg	8.64	2.89	1	11/17/20 15:00	12/01/20 09:52		
Aliphatic (C09-C12)	<8.64	mg/kg	8.64	2.89	1	11/17/20 15:00	12/01/20 09:52		
Aromatic (C09-C10), Unadjusted	<8.64	mg/kg	8.64	2.89	1	11/17/20 15:00	12/01/20 09:52	TPHC9C10A	
Total VPH	<8.64	mg/kg	8.64	2.89	1	11/17/20 15:00	12/01/20 09:52	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	93.9	%	70.0-130		1	11/17/20 15:00	12/01/20 09:52	615-59-8FID	
2,5-Dibromotoluene (PID)	88.3	%	70.0-130		1	11/17/20 15:00	12/01/20 09:52	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<0.130	mg/kg	0.130	0.0947	1.65	11/17/20 15:00	11/24/20 03:47	67-64-1	MH,R1
Acrylonitrile	<0.0324	mg/kg	0.0324	0.00937	1.65	11/17/20 15:00	11/24/20 03:47	107-13-1	
Benzene	0.0222	mg/kg	0.00259	0.00121	1.65	11/17/20 15:00	11/24/20 03:47	71-43-2	
Bromobenzene	<0.0324	mg/kg	0.0324	0.00233	1.65	11/17/20 15:00	11/24/20 03:47	108-86-1	
Bromodichloromethane	<0.00649	mg/kg	0.00649	0.00189	1.65	11/17/20 15:00	11/24/20 03:47	75-27-4	
Bromoform	<0.0649	mg/kg	0.0649	0.00304	1.65	11/17/20 15:00	11/24/20 03:47	75-25-2	
Bromomethane	<0.0324	mg/kg	0.0324	0.00511	1.65	11/17/20 15:00	11/24/20 03:47	74-83-9	
n-Butylbenzene	<0.0324	mg/kg	0.0324	0.0136	1.65	11/17/20 15:00	11/24/20 03:47	104-51-8	
sec-Butylbenzene	<0.0324	mg/kg	0.0324	0.00747	1.65	11/17/20 15:00	11/24/20 03:47	135-98-8	
tert-Butylbenzene	<0.0130	mg/kg	0.0130	0.00506	1.65	11/17/20 15:00	11/24/20 03:47	98-06-6	
Carbon tetrachloride	<0.0130	mg/kg	0.0130	0.00233	1.65	11/17/20 15:00	11/24/20 03:47	56-23-5	
Chlorobenzene	<0.00649	mg/kg	0.00649	0.000546	1.65	11/17/20 15:00	11/24/20 03:47	108-90-7	
Dibromochloromethane	<0.00649	mg/kg	0.00649	0.00159	1.65	11/17/20 15:00	11/24/20 03:47	124-48-1	
Chloroethane	<0.0130	mg/kg	0.0130	0.00442	1.65	11/17/20 15:00	11/24/20 03:47	75-00-3	ML,R1
Chloroform	<0.00649	mg/kg	0.00649	0.00267	1.65	11/17/20 15:00	11/24/20 03:47	67-66-3	
Chloromethane	<0.0324	mg/kg	0.0324	0.0113	1.65	11/17/20 15:00	11/24/20 03:47	74-87-3	
2-Chlorotoluene	<0.00649	mg/kg	0.00649	0.00225	1.65	11/17/20 15:00	11/24/20 03:47	95-49-8	
4-Chlorotoluene	<0.0130	mg/kg	0.0130	0.00117	1.65	11/17/20 15:00	11/24/20 03:47	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0649	mg/kg	0.0649	0.0101	1.65	11/17/20 15:00	11/24/20 03:47	96-12-8	
1,2-Dibromoethane (EDB)	<0.00649	mg/kg	0.00649	0.00168	1.65	11/17/20 15:00	11/24/20 03:47	106-93-4	
Dibromomethane	<0.0130	mg/kg	0.0130	0.00195	1.65	11/17/20 15:00	11/24/20 03:47	74-95-3	
1,2-Dichlorobenzene	<0.0130	mg/kg	0.0130	0.00110	1.65	11/17/20 15:00	11/24/20 03:47	95-50-1	
1,3-Dichlorobenzene	<0.0130	mg/kg	0.0130	0.00156	1.65	11/17/20 15:00	11/24/20 03:47	541-73-1	
1,4-Dichlorobenzene	<0.0130	mg/kg	0.0130	0.00181	1.65	11/17/20 15:00	11/24/20 03:47	106-46-7	
Dichlorodifluoromethane	<0.00649	mg/kg	0.00649	0.00418	1.65	11/17/20 15:00	11/24/20 03:47	75-71-8	
1,1-Dichloroethane	<0.00649	mg/kg	0.00649	0.00127	1.65	11/17/20 15:00	11/24/20 03:47	75-34-3	
1,2-Dichloroethane	<0.00649	mg/kg	0.00649	0.00168	1.65	11/17/20 15:00	11/24/20 03:47	107-06-2	
1,1-Dichloroethene	<0.00649	mg/kg	0.00649	0.00157	1.65	11/17/20 15:00	11/24/20 03:47	75-35-4	
cis-1,2-Dichloroethene	<0.00649	mg/kg	0.00649	0.00190	1.65	11/17/20 15:00	11/24/20 03:47	156-59-2	
trans-1,2-Dichloroethene	<0.0130	mg/kg	0.0130	0.00270	1.65	11/17/20 15:00	11/24/20 03:47	156-60-5	
1,2-Dichloropropane	<0.0130	mg/kg	0.0130	0.00368	1.65	11/17/20 15:00	11/24/20 03:47	78-87-5	
1,1-Dichloropropene	<0.00649	mg/kg	0.00649	0.00209	1.65	11/17/20 15:00	11/24/20 03:47	563-58-6	
1,3-Dichloropropane	<0.0130	mg/kg	0.0130	0.00130	1.65	11/17/20 15:00	11/24/20 03:47	142-28-9	
cis-1,3-Dichloropropene	<0.00649	mg/kg	0.00649	0.00197	1.65	11/17/20 15:00	11/24/20 03:47	10061-01-5	

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### ANALYTICAL RESULTS

Project: 2020-LI-2448  
Pace Project No.: 92506678

Sample: South Wall Lab ID: 92506678026 Collected: 11/17/20 15:00 Received: 11/18/20 09:17 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>VOA (GC/MS) 8260D</b>									
Analytical Method: EPA 8260D Preparation Method: 5035A									
Pace National - Mt. Juliet									
trans-1,3-Dichloropropene	<0.0130	mg/kg	0.0130	0.00296	1.65	11/17/20 15:00	11/24/20 03:47	10061-02-6	
2,2-Dichloropropane	<0.00649	mg/kg	0.00649	0.00359	1.65	11/17/20 15:00	11/24/20 03:47	594-20-7	
Diisopropyl ether	<0.00259	mg/kg	0.00259	0.00106	1.65	11/17/20 15:00	11/24/20 03:47	108-20-3	
Ethylbenzene	0.0168	mg/kg	0.00649	0.00192	1.65	11/17/20 15:00	11/24/20 03:47	100-41-4	
Hexachloro-1,3-butadiene	<0.0649	mg/kg	0.0649	0.0156	1.65	11/17/20 15:00	11/24/20 03:47	87-68-3	
Isopropylbenzene (Cumene)	<0.00649	mg/kg	0.00649	0.00110	1.65	11/17/20 15:00	11/24/20 03:47	98-82-8	
p-Isopropyltoluene	<0.0130	mg/kg	0.0130	0.00662	1.65	11/17/20 15:00	11/24/20 03:47	99-87-6	
2-Butanone (MEK)	<0.259	mg/kg	0.259	0.165	1.65	11/17/20 15:00	11/24/20 03:47	78-93-3	
Methylene Chloride	0.0178J	mg/kg	0.0649	0.0173	1.65	11/17/20 15:00	11/24/20 03:47	75-09-2	J
4-Methyl-2-pentanone (MIBK)	<0.0649	mg/kg	0.0649	0.00591	1.65	11/17/20 15:00	11/24/20 03:47	108-10-1	
Methyl-tert-butyl ether	0.0582	mg/kg	0.00259	0.000907	1.65	11/17/20 15:00	11/24/20 03:47	1634-04-4	
Naphthalene	<0.0324	mg/kg	0.0324	0.0127	1.65	11/17/20 15:00	11/24/20 03:47	91-20-3	
n-Propylbenzene	<0.0130	mg/kg	0.0130	0.00247	1.65	11/17/20 15:00	11/24/20 03:47	103-65-1	
Styrene	<0.0324	mg/kg	0.0324	0.000594	1.65	11/17/20 15:00	11/24/20 03:47	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00649	mg/kg	0.00649	0.00245	1.65	11/17/20 15:00	11/24/20 03:47	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00649	mg/kg	0.00649	0.00181	1.65	11/17/20 15:00	11/24/20 03:47	79-34-5	
1,1,2-Trichlorotrifluoroethane	<0.00649	mg/kg	0.00649	0.00195	1.65	11/17/20 15:00	11/24/20 03:47	76-13-1	
Tetrachloroethene	<0.00649	mg/kg	0.00649	0.00233	1.65	11/17/20 15:00	11/24/20 03:47	127-18-4	
Toluene	0.147	mg/kg	0.0130	0.00338	1.65	11/17/20 15:00	11/24/20 03:47	108-88-3	
1,2,3-Trichlorobenzene	<0.0324	mg/kg	0.0324	0.0190	1.65	11/17/20 15:00	11/24/20 03:47	87-61-6	C4
1,2,4-Trichlorobenzene	<0.0324	mg/kg	0.0324	0.0114	1.65	11/17/20 15:00	11/24/20 03:47	120-82-1	
1,1,1-Trichloroethane	<0.00649	mg/kg	0.00649	0.00239	1.65	11/17/20 15:00	11/24/20 03:47	71-55-6	
1,1,2-Trichloroethane	<0.00649	mg/kg	0.00649	0.00155	1.65	11/17/20 15:00	11/24/20 03:47	79-00-5	
Trichloroethene	<0.00259	mg/kg	0.00259	0.00152	1.65	11/17/20 15:00	11/24/20 03:47	79-01-6	
Trichlorofluoromethane	<0.00649	mg/kg	0.00649	0.00214	1.65	11/17/20 15:00	11/24/20 03:47	75-69-4	
1,2,3-Trichloropropane	<0.0324	mg/kg	0.0324	0.00420	1.65	11/17/20 15:00	11/24/20 03:47	96-18-4	
1,2,4-Trimethylbenzene	0.00538J	mg/kg	0.0130	0.00410	1.65	11/17/20 15:00	11/24/20 03:47	95-63-6	B,J
1,2,3-Trimethylbenzene	<0.0130	mg/kg	0.0130	0.00410	1.65	11/17/20 15:00	11/24/20 03:47	526-73-8	
1,3,5-Trimethylbenzene	<0.0130	mg/kg	0.0130	0.00519	1.65	11/17/20 15:00	11/24/20 03:47	108-67-8	
Vinyl chloride	<0.00649	mg/kg	0.00649	0.00300	1.65	11/17/20 15:00	11/24/20 03:47	75-01-4	
Xylene (Total)	0.0722	mg/kg	0.0168	0.00228	1.65	11/17/20 15:00	11/24/20 03:47	1330-20-7	
<b>Surrogates</b>									
Toluene-d8 (S)	112	%	75.0-131		1.65	11/17/20 15:00	11/24/20 03:47	2037-26-5	
4-Bromofluorobenzene (S)	90.9	%	67.0-138		1.65	11/17/20 15:00	11/24/20 03:47	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130		1.65	11/17/20 15:00	11/24/20 03:47	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids 73.7 % 1 11/26/20 06:55 11/26/20 07:55

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506678

QC Batch:	1581281	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506678001, 92506678002, 92506678005, 92506678006, 92506678010, 92506678011, 92506678012, 92506678013

METHOD BLANK:	R3597451-3	Matrix:	Solid
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Associated Lab Samples: 92506678001, 92506678002, 92506678005, 92506678006, 92506678010, 92506678011, 92506678012, 92506678013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	<5.00	5.00	1.67	11/23/20 18:38	
Aliphatic (C09-C12)	mg/kg	<5.00	5.00	1.67	11/23/20 18:38	
Aromatic (C09-C10), Unadjusted	mg/kg	<5.00	5.00	1.67	11/23/20 18:38	
Total VPH	mg/kg	<5.00	5.00	1.67	11/23/20 18:38	
2,5-Dibromotoluene (FID)	%	77	70.0-130		11/23/20 18:38	
2,5-Dibromotoluene (PID)	%	76.7	70.0-130		11/23/20 18:38	

Parameter	Units	R3597451-1		R3597451-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
Aliphatic (C05-C08)	mg/kg	60.0	50.5	49.3	84.2	82.2	70.0-130	2.40	25
Aliphatic (C09-C12)	mg/kg	70.0	67.3	65.7	96.1	93.9	70.0-130	2.41	25
Aromatic (C09-C10), Unadjusted	mg/kg	10.0	9.74	9.56	97.4	95.6	70.0-130	1.87	25
Total VPH	mg/kg	140	128	125	91.4	89.3	70.0-130	2.37	25
2,5-Dibromotoluene (FID)	%				84.3	86.1	70.0-130		
2,5-Dibromotoluene (PID)	%				86.2	87.7	70.0-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506678

QC Batch:	1581671	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506678015, 92506678016, 92506678017, 92506678018, 92506678019, 92506678020, 92506678021, 92506678022, 92506678023, 92506678024, 92506678025

METHOD BLANK: R3598732-3 Matrix: Solid  
Associated Lab Samples: 92506678015, 92506678016, 92506678017, 92506678018, 92506678019, 92506678020, 92506678021, 92506678022, 92506678023, 92506678024, 92506678025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	<5.00	5.00	1.67	11/24/20 10:38	
Aliphatic (C09-C12)	mg/kg	<5.00	5.00	1.67	11/24/20 10:38	
Aromatic (C09-C10), Unadjusted	mg/kg	<5.00	5.00	1.67	11/24/20 10:38	
Total VPH	mg/kg	<5.00	5.00	1.67	11/24/20 10:38	
2,5-Dibromotoluene (FID)	%	77.2	70.0-130		11/24/20 10:38	
2,5-Dibromotoluene (PID)	%	74.4	70.0-130		11/24/20 10:38	

Parameter	Units	R3598732-1		R3598732-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
Aliphatic (C05-C08)	mg/kg	60.0	45.8	46.3	76.3	77.2	70.0-130	1.09	25
Aliphatic (C09-C12)	mg/kg	70.0	61.6	62.1	88.0	88.7	70.0-130	0.808	25
Aromatic (C09-C10), Unadjusted	mg/kg	10.0	8.90	8.96	89.0	89.6	70.0-130	0.672	25
Total VPH	mg/kg	140	116	117	82.9	83.6	70.0-130	0.858	25
2,5-Dibromotoluene (FID)	%				88.0	90.1	70.0-130		
2,5-Dibromotoluene (PID)	%				88.3	90.3	70.0-130		

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506678

QC Batch:	1582633	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506678001, 92506678002, 92506678003, 92506678004, 92506678006, 92506678007, 92506678008, 92506678009, 92506678010, 92506678014

METHOD BLANK: R3598141-3 Matrix: Solid  
Associated Lab Samples: 92506678001, 92506678002, 92506678003, 92506678004, 92506678006, 92506678007, 92506678008, 92506678009, 92506678010, 92506678014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	<5.00	5.00	1.67	11/27/20 07:10	
Aliphatic (C09-C12)	mg/kg	<5.00	5.00	1.67	11/27/20 07:10	
Aromatic (C09-C10), Unadjusted	mg/kg	<5.00	5.00	1.67	11/27/20 07:10	
Total VPH	mg/kg	<5.00	5.00	1.67	11/27/20 07:10	
2,5-Dibromotoluene (FID)	%	79.5	70.0-130		11/27/20 07:10	
2,5-Dibromotoluene (PID)	%	78.8	70.0-130		11/27/20 07:10	

Parameter	Units	R3598141-1		R3598141-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
Aliphatic (C05-C08)	mg/kg	60.0	50.1	48.3	83.5	80.5	70.0-130	3.66	25
Aliphatic (C09-C12)	mg/kg	70.0	62.1	61.0	88.7	87.1	70.0-130	1.79	25
Aromatic (C09-C10), Unadjusted	mg/kg	10.0	9.39	9.19	93.9	91.9	70.0-130	2.15	25
Total VPH	mg/kg	140	122	118	87.1	84.3	70.0-130	3.33	25
2,5-Dibromotoluene (FID)	%				88.0	91.8	70.0-130		
2,5-Dibromotoluene (PID)	%				91.1	94.4	70.0-130		

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506678

QC Batch: 1584348

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506678015, 92506678026

METHOD BLANK: R3599096-3

Matrix: Solid

Associated Lab Samples: 92506678015, 92506678026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	<5.00	5.00	1.67	12/01/20 06:32	
Aliphatic (C09-C12)	mg/kg	<5.00	5.00	1.67	12/01/20 06:32	
Aromatic (C09-C10),Unadjusted	mg/kg	<5.00	5.00	1.67	12/01/20 06:32	
Total VPH	mg/kg	<5.00	5.00	1.67	12/01/20 06:32	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130		12/01/20 06:32	
2,5-Dibromotoluene (PID)	%	83.9	70.0-130		12/01/20 06:32	

LABORATORY CONTROL SAMPLE & LCSD: R3599096-1 R3599096-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	60.0	47.3	47.5	78.8	79.2	70.0-130	0.422	25	
Aliphatic (C09-C12)	mg/kg	70.0	64.9	65.1	92.7	93.0	70.0-130	0.308	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	9.22	9.19	92.2	91.9	70.0-130	0.326	25	
Total VPH	mg/kg	140	121	122	86.4	87.1	70.0-130	0.823	25	
2,5-Dibromotoluene (FID)	%				95.4	95.1	70.0-130			
2,5-Dibromotoluene (PID)	%				91.7	91.2	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506678

QC Batch:	1581174	Analysis Method:	EPA 8260D
QC Batch Method:	5035A	Analysis Description:	VOA (GC/MS) 8260D
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506678001, 92506678002, 92506678003, 92506678004, 92506678005, 92506678006, 92506678007, 92506678008, 92506678009, 92506678010, 92506678011, 92506678012, 92506678013, 92506678014, 92506678015

METHOD BLANK: R3597546-2 Matrix: Solid

Associated Lab Samples: 92506678001, 92506678002, 92506678003, 92506678004, 92506678005, 92506678006, 92506678007, 92506678008, 92506678009, 92506678010, 92506678011, 92506678012, 92506678013, 92506678014, 92506678015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	mg/kg	<0.0500	0.0500	0.0365	11/23/20 10:59	
Acrylonitrile	mg/kg	<0.0125	0.0125	0.00361	11/23/20 10:59	
Benzene	mg/kg	<0.00100	0.00100	0.000467	11/23/20 10:59	
Bromobenzene	mg/kg	<0.0125	0.0125	0.000900	11/23/20 10:59	
Bromodichloromethane	mg/kg	<0.00250	0.00250	0.000725	11/23/20 10:59	
Bromoform	mg/kg	<0.0250	0.0250	0.00117	11/23/20 10:59	
Bromomethane	mg/kg	<0.0125	0.0125	0.00197	11/23/20 10:59	
n-Butylbenzene	mg/kg	<0.0125	0.0125	0.00525	11/23/20 10:59	
sec-Butylbenzene	mg/kg	<0.0125	0.0125	0.00288	11/23/20 10:59	
tert-Butylbenzene	mg/kg	<0.00500	0.00500	0.00195	11/23/20 10:59	
Carbon tetrachloride	mg/kg	<0.00500	0.00500	0.000898	11/23/20 10:59	
Chlorobenzene	mg/kg	<0.00250	0.00250	0.000210	11/23/20 10:59	
Dibromochloromethane	mg/kg	<0.00250	0.00250	0.000612	11/23/20 10:59	
Chloroethane	mg/kg	<0.00500	0.00500	0.00170	11/23/20 10:59	
Chloroform	mg/kg	<0.00250	0.00250	0.00103	11/23/20 10:59	
Chloromethane	mg/kg	<0.0125	0.0125	0.00435	11/23/20 10:59	
2-Chlorotoluene	mg/kg	<0.00250	0.00250	0.000865	11/23/20 10:59	
4-Chlorotoluene	mg/kg	<0.00500	0.00500	0.000450	11/23/20 10:59	
1,2-Dibromo-3-chloropropane	mg/kg	<0.0250	0.0250	0.00390	11/23/20 10:59	
1,2-Dibromoethane (EDB)	mg/kg	<0.00250	0.00250	0.000648	11/23/20 10:59	
Dibromomethane	mg/kg	<0.00500	0.00500	0.000750	11/23/20 10:59	
1,2-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000425	11/23/20 10:59	
1,3-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000600	11/23/20 10:59	
1,4-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000700	11/23/20 10:59	
Dichlorodifluoromethane	mg/kg	<0.00250	0.00250	0.00161	11/23/20 10:59	
1,1-Dichloroethane	mg/kg	<0.00250	0.00250	0.000491	11/23/20 10:59	
1,2-Dichloroethane	mg/kg	<0.00250	0.00250	0.000649	11/23/20 10:59	
1,1-Dichloroethene	mg/kg	<0.00250	0.00250	0.000606	11/23/20 10:59	
cis-1,2-Dichloroethene	mg/kg	<0.00250	0.00250	0.000734	11/23/20 10:59	
trans-1,2-Dichloroethene	mg/kg	<0.00500	0.00500	0.00104	11/23/20 10:59	
1,2-Dichloropropane	mg/kg	<0.00500	0.00500	0.00142	11/23/20 10:59	
1,1-Dichloropropene	mg/kg	<0.00250	0.00250	0.000809	11/23/20 10:59	
1,3-Dichloropropane	mg/kg	<0.00500	0.00500	0.000501	11/23/20 10:59	
cis-1,3-Dichloropropene	mg/kg	<0.00250	0.00250	0.000757	11/23/20 10:59	
trans-1,3-Dichloropropene	mg/kg	<0.00500	0.00500	0.00114	11/23/20 10:59	
2,2-Dichloropropane	mg/kg	<0.00250	0.00250	0.00138	11/23/20 10:59	
Diisopropyl ether	mg/kg	<0.00100	0.00100	0.000410	11/23/20 10:59	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506678

METHOD BLANK: R3597546-2

Matrix: Solid

Associated Lab Samples: 92506678001, 92506678002, 92506678003, 92506678004, 92506678005, 92506678006, 92506678007, 92506678008, 92506678009, 92506678010, 92506678011, 92506678012, 92506678013, 92506678014, 92506678015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	mg/kg	<0.00250	0.00250	0.000737	11/23/20 10:59	
Hexachloro-1,3-butadiene	mg/kg	<0.0250	0.0250	0.00600	11/23/20 10:59	
Isopropylbenzene (Cumene)	mg/kg	<0.00250	0.00250	0.000425	11/23/20 10:59	
p-Isopropyltoluene	mg/kg	<0.00500	0.00500	0.00255	11/23/20 10:59	
2-Butanone (MEK)	mg/kg	<0.100	0.100	0.0635	11/23/20 10:59	
Methylene Chloride	mg/kg	<0.0250	0.0250	0.00664	11/23/20 10:59	
4-Methyl-2-pentanone (MIBK)	mg/kg	<0.0250	0.0250	0.00228	11/23/20 10:59	
Methyl-tert-butyl ether	mg/kg	<0.00100	0.00100	0.000350	11/23/20 10:59	
Naphthalene	mg/kg	<0.0125	0.0125	0.00488	11/23/20 10:59	
n-Propylbenzene	mg/kg	<0.00500	0.00500	0.000950	11/23/20 10:59	
Styrene	mg/kg	<0.0125	0.0125	0.000229	11/23/20 10:59	
1,1,1,2-Tetrachloroethane	mg/kg	<0.00250	0.00250	0.000948	11/23/20 10:59	
1,1,2,2-Tetrachloroethane	mg/kg	<0.00250	0.00250	0.000695	11/23/20 10:59	
Tetrachloroethene	mg/kg	<0.00250	0.00250	0.000896	11/23/20 10:59	
Toluene	mg/kg	<0.00500	0.00500	0.00130	11/23/20 10:59	
1,1,2-Trichlorotrifluoroethane	mg/kg	<0.00250	0.00250	0.000754	11/23/20 10:59	
1,2,3-Trichlorobenzene	mg/kg	<0.0125	0.0125	0.00733	11/23/20 10:59	
1,2,4-Trichlorobenzene	mg/kg	<0.0125	0.0125	0.00440	11/23/20 10:59	
1,1,1-Trichloroethane	mg/kg	<0.00250	0.00250	0.000923	11/23/20 10:59	
1,1,2-Trichloroethane	mg/kg	<0.00250	0.00250	0.000597	11/23/20 10:59	
Trichloroethene	mg/kg	<0.00100	0.00100	0.000584	11/23/20 10:59	
Trichlorofluoromethane	mg/kg	<0.00250	0.00250	0.000827	11/23/20 10:59	
1,2,3-Trichloropropane	mg/kg	<0.0125	0.0125	0.00162	11/23/20 10:59	
1,2,3-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/23/20 10:59	
1,2,4-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/23/20 10:59	
1,3,5-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00200	11/23/20 10:59	
Vinyl chloride	mg/kg	<0.00250	0.00250	0.00116	11/23/20 10:59	
Xylene (Total)	mg/kg	<0.00650	0.00650	0.000880	11/23/20 10:59	
Toluene-d8 (S)	%	112	75.0-131		11/23/20 10:59	
4-Bromofluorobenzene (S)	%	91.2	67.0-138		11/23/20 10:59	
1,2-Dichloroethane-d4 (S)	%	104	70.0-130		11/23/20 10:59	

LABORATORY CONTROL SAMPLE: R3597546-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	mg/kg	0.625	0.737	118	10.0-160	
Acrylonitrile	mg/kg	0.625	0.857	137	45.0-153	
Benzene	mg/kg	0.125	0.133	106	70.0-123	
Bromobenzene	mg/kg	0.125	0.137	110	73.0-121	
Bromodichloromethane	mg/kg	0.125	0.135	108	73.0-121	
Bromoform	mg/kg	0.125	0.132	106	64.0-132	
Bromomethane	mg/kg	0.125	0.136	109	56.0-147	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506678

LABORATORY CONTROL SAMPLE: R3597546-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	mg/kg	0.125	0.128	102	68.0-135	
sec-Butylbenzene	mg/kg	0.125	0.131	105	74.0-130	
tert-Butylbenzene	mg/kg	0.125	0.127	102	75.0-127	
Carbon tetrachloride	mg/kg	0.125	0.148	118	66.0-128	
Chlorobenzene	mg/kg	0.125	0.130	104	76.0-128	
Dibromochloromethane	mg/kg	0.125	0.116	92.8	74.0-127	
Chloroethane	mg/kg	0.125	0.150	120	61.0-134	
Chloroform	mg/kg	0.125	0.137	110	72.0-123	
Chloromethane	mg/kg	0.125	0.146	117	51.0-138	
2-Chlorotoluene	mg/kg	0.125	0.138	110	75.0-124	
4-Chlorotoluene	mg/kg	0.125	0.139	111	75.0-124	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.120	96.0	59.0-130	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.126	101	74.0-128	
Dibromomethane	mg/kg	0.125	0.130	104	75.0-122	
1,2-Dichlorobenzene	mg/kg	0.125	0.130	104	76.0-124	
1,3-Dichlorobenzene	mg/kg	0.125	0.134	107	76.0-125	
1,4-Dichlorobenzene	mg/kg	0.125	0.124	99.2	77.0-121	
Dichlorodifluoromethane	mg/kg	0.125	0.148	118	43.0-156	
1,1-Dichloroethane	mg/kg	0.125	0.152	122	70.0-127	
1,2-Dichloroethane	mg/kg	0.125	0.121	96.8	65.0-131	
1,1-Dichloroethene	mg/kg	0.125	0.164	131	65.0-131	
cis-1,2-Dichloroethene	mg/kg	0.125	0.148	118	73.0-125	
trans-1,2-Dichloroethene	mg/kg	0.125	0.139	111	71.0-125	
1,2-Dichloropropane	mg/kg	0.125	0.137	110	74.0-125	
1,1-Dichloropropene	mg/kg	0.125	0.141	113	73.0-125	
1,3-Dichloropropane	mg/kg	0.125	0.136	109	80.0-125	
cis-1,3-Dichloropropene	mg/kg	0.125	0.130	104	76.0-127	
trans-1,3-Dichloropropene	mg/kg	0.125	0.137	110	73.0-127	
2,2-Dichloropropane	mg/kg	0.125	0.132	106	59.0-135	
Diisopropyl ether	mg/kg	0.125	0.148	118	60.0-136	
Ethylbenzene	mg/kg	0.125	0.125	100	74.0-126	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.133	106	57.0-150	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.128	102	72.0-127	
p-Isopropyltoluene	mg/kg	0.125	0.124	99.2	72.0-133	
2-Butanone (MEK)	mg/kg	0.625	0.841	135	30.0-160	
Methylene Chloride	mg/kg	0.125	0.140	112	68.0-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.709	113	56.0-143	
Methyl-tert-butyl ether	mg/kg	0.125	0.148	118	66.0-132	
Naphthalene	mg/kg	0.125	0.0970	77.6	59.0-130	
n-Propylbenzene	mg/kg	0.125	0.146	117	74.0-126	
Styrene	mg/kg	0.125	0.122	97.6	72.0-127	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.125	100	74.0-129	
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.130	104	68.0-128	
Tetrachloroethene	mg/kg	0.125	0.139	111	70.0-136	
Toluene	mg/kg	0.125	0.130	104	75.0-121	
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.121	96.8	61.0-139	
1,2,3-Trichlorobenzene	mg/kg	0.125	0.114	91.2	59.0-139	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506678

LABORATORY CONTROL SAMPLE: R3597546-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	0.125	0.117	93.6	62.0-137	
1,1,1-Trichloroethane	mg/kg	0.125	0.136	109	69.0-126	
1,1,2-Trichloroethane	mg/kg	0.125	0.127	102	78.0-123	
Trichloroethene	mg/kg	0.125	0.134	107	76.0-126	
Trichlorofluoromethane	mg/kg	0.125	0.149	119	61.0-142	
1,2,3-Trichloropropane	mg/kg	0.125	0.139	111	67.0-129	
1,2,3-Trimethylbenzene	mg/kg	0.125	0.126	101	74.0-124	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.128	102	70.0-126	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.137	110	73.0-127	
Vinyl chloride	mg/kg	0.125	0.142	114	63.0-134	
Xylene (Total)	mg/kg	0.375	0.390	104	72.0-127	
Toluene-d8 (S)	%			105	75.0-131	
4-Bromofluorobenzene (S)	%			94.8	67.0-138	
1,2-Dichloroethane-d4 (S)	%			114	70.0-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3597546-3 R3597546-4

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92506678014 Result	Spike Conc.	Spike Conc.	MS Conc.								
Acetone	mg/kg	ND	17.6	17.6	12.2	18.7	69.1	106	10.0-160	42.4	40	R1	
Acrylonitrile	mg/kg		17.6	17.6	20.9	23.5	119	133	10.0-160	11.4	40		
Benzene	mg/kg	0.342	3.53	3.53	3.69	4.15	94.8	108	10.0-149	11.7	37		
Bromobenzene	mg/kg	ND	3.53	3.53	3.58	4.06	101	115	10.0-156	12.4	38		
Bromodichloromethane	mg/kg	ND	3.53	3.53	3.49	3.98	98.7	113	10.0-143	13.2	37		
Bromoform	mg/kg	ND	3.53	3.53	3.76	3.83	106	109	10.0-146	2.09	36		
Bromomethane	mg/kg	ND	3.53	3.53	3.74	3.99	106	113	10.0-149	6.56	38		
n-Butylbenzene	mg/kg	0.250	3.53	3.53	3.49	4.06	91.6	108	10.0-160	15.1	40		
sec-Butylbenzene	mg/kg	ND	3.53	3.53	3.55	4.06	100	115	10.0-159	13.3	39		
tert-Butylbenzene	mg/kg	ND	3.53	3.53	3.36	3.85	95.1	109	10.0-156	13.6	39		
Carbon tetrachloride	mg/kg	ND	3.53	3.53	3.66	4.18	104	118	10.0-145	13.3	37		
Chlorobenzene	mg/kg	ND	3.53	3.53	3.41	3.80	96.4	108	10.0-152	11.0	39		
Dibromochloromethane	mg/kg	ND	3.53	3.53	3.20	3.52	90.6	99.6	10.0-146	9.43	37		
Chloroethane	mg/kg	ND	3.53	3.53	3.88	3.76	110	106	10.0-146	3.32	40		
Chloroform	mg/kg	ND	3.53	3.53	3.50	3.95	99.1	112	10.0-146	11.9	37		
Chloromethane	mg/kg	ND	3.53	3.53	3.98	4.71	113	133	10.0-159	16.8	37		
2-Chlorotoluene	mg/kg	ND	3.53	3.53	3.71	4.20	105	119	10.0-159	12.4	38		
4-Chlorotoluene	mg/kg	ND	3.53	3.53	3.69	4.22	104	119	10.0-155	13.2	39		
1,2-Dibromo-3-chloropropane	mg/kg	ND	3.53	3.53	3.39	3.88	96.0	110	10.0-151	13.5	39		
1,2-Dibromoethane (EDB)	mg/kg	ND	3.53	3.53	3.49	3.68	98.7	104	10.0-148	5.31	34		
Dibromomethane	mg/kg	ND	3.53	3.53	3.41	3.57	96.4	101	10.0-147	4.55	35		
1,2-Dichlorobenzene	mg/kg	ND	3.53	3.53	3.49	3.90	98.7	110	10.0-155	11.2	37		
1,3-Dichlorobenzene	mg/kg	ND	3.53	3.53	3.47	3.88	98.2	110	10.0-153	11.2	38		
1,4-Dichlorobenzene	mg/kg	ND	3.53	3.53	3.41	3.83	96.4	109	10.0-151	11.8	38		
Dichlorodifluoromethane	mg/kg	ND	3.53	3.53	4.28	5.09	121	144	10.0-160	17.3	35		

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 2020-LI-2448

Pace Project No.: 92506678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3597546-3												R3597546-4											
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual										
		92506678014 Result	Spike Conc.	Spike Conc.	MS Conc.																		
1,1-Dichloroethane	mg/kg	ND	3.53	3.53	3.71	4.10	105	116	10.0-147	10.1	37												
1,2-Dichloroethane	mg/kg	ND	3.53	3.53	3.49	3.63	98.7	103	10.0-148	4.01	35												
1,1-Dichloroethene	mg/kg	ND	3.53	3.53	4.01	4.52	113	128	10.0-155	11.9	37												
cis-1,2-Dichloroethene	mg/kg	ND	3.53	3.53	3.69	4.10	104	116	10.0-149	10.6	37												
trans-1,2-Dichloroethene	mg/kg	ND	3.53	3.53	3.53	4.02	100	114	10.0-150	13.0	37												
1,2-Dichloropropane	mg/kg	ND	3.53	3.53	3.42	4.15	96.9	117	10.0-148	19.2	37												
1,1-Dichloropropene	mg/kg	ND	3.53	3.53	3.50	4.12	99.1	117	10.0-153	16.2	35												
1,3-Dichloropropane	mg/kg	ND	3.53	3.53	3.57	4.14	101	117	10.0-154	14.8	35												
cis-1,3-Dichloropropene	mg/kg	ND	3.53	3.53	3.42	4.04	96.9	114	10.0-151	16.6	37												
trans-1,3-Dichloropropene	mg/kg	ND	3.53	3.53	3.74	4.25	106	120	10.0-148	12.7	37												
2,2-Dichloropropane	mg/kg	ND	3.53	3.53	3.60	4.29	102	122	10.0-138	17.7	36												
Diisopropyl ether	mg/kg	ND	3.53	3.53	3.72	4.02	105	114	10.0-147	7.77	36												
Ethylbenzene	mg/kg	0.244	3.53	3.53	3.45	3.79	90.9	100	10.0-160	9.19	38												
Hexachloro-1,3-butadiene	mg/kg	ND	3.53	3.53	3.61	4.69	102	133	10.0-160	26.0	40												
Isopropylbenzene (Cumene)	mg/kg	0.0769	3.53	3.53	3.38	3.83	93.3	106	10.0-155	12.7	38												
p-Isopropyltoluene	mg/kg	ND	3.53	3.53	3.38	3.90	95.5	110	10.0-160	14.4	40												
2-Butanone (MEK)	mg/kg	ND	17.6	17.6	22.3	24.7	127	141	10.0-160	10.1	40												
Methylene Chloride	mg/kg	ND	3.53	3.53	3.49	3.91	98.7	111	10.0-141	11.6	37												
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	17.6	17.6	18.4	20.3	105	115	10.0-160	9.84	35												
Methyl-tert-butyl ether	mg/kg	ND	3.53	3.53	3.87	4.07	109	115	11.0-147	5.19	35												
Naphthalene	mg/kg	1.70	3.53	3.53	3.17	3.79	41.7	59.2	10.0-160	17.8	36												
n-Propylbenzene	mg/kg	0.525	3.53	3.53	3.95	4.42	96.8	110	10.0-158	11.4	38												
Styrene	mg/kg	ND	3.53	3.53	3.30	3.61	93.3	102	10.0-160	9.17	40												
1,1,1,2-Tetrachloroethane	mg/kg	ND	3.53	3.53	3.33	3.69	94.2	104	10.0-149	10.4	39												
1,1,2,2-Tetrachloroethane	mg/kg	ND	3.53	3.53	3.64	3.79	103	107	10.0-160	3.84	35												
Tetrachloroethene	mg/kg	ND	3.53	3.53	3.76	4.45	106	126	10.0-156	17.0	39												
Toluene	mg/kg	1.17	3.53	3.53	4.20	4.80	85.6	103	10.0-156	13.4	38												
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	3.53	3.53	3.15	3.79	89.2	107	10.0-160	18.3	36												
1,2,3-Trichlorobenzene	mg/kg	ND	3.53	3.53	3.60	4.26	102	121	10.0-160	16.9	40												
1,2,4-Trichlorobenzene	mg/kg	ND	3.53	3.53	3.17	4.09	89.7	116	10.0-160	25.3	40												
1,1,1-Trichloroethane	mg/kg	ND	3.53	3.53	3.52	4.02	99.6	114	10.0-144	13.4	35												
1,1,2-Trichloroethane	mg/kg	ND	3.53	3.53	3.55	3.90	100	110	10.0-160	9.36	35												
Trichloroethene	mg/kg	ND	3.53	3.53	3.36	3.93	95.1	111	10.0-156	15.7	38												
Trichlorofluoromethane	mg/kg	ND	3.53	3.53	4.17	4.74	118	134	10.0-160	12.8	40												
1,2,3-Trichloropropane	mg/kg	ND	3.53	3.53	3.95	4.09	112	116	10.0-156	3.55	35												
1,2,3-Trimethylbenzene	mg/kg	1.05	3.53	3.53	3.44	3.93	67.7	81.6	10.0-160	13.3	36												
1,2,4-Trimethylbenzene	mg/kg	3.44	3.53	3.53	3.87	4.04	12.1	17.0	10.0-160	4.41	36												
1,3,5-Trimethylbenzene	mg/kg	1.08	3.53	3.53	3.74	4.18	75.3	87.9	10.0-160	11.2	38												
Vinyl chloride	mg/kg	ND	3.53	3.53	3.99	4.82	113	136	10.0-160	18.7	37												
Xylene (Total)	mg/kg	2.22	10.6	10.6	10.6	11.7	78.7	89.7	10.0-160	10.4	38												
Toluene-d8 (S)	%						107	108	75.0-131														
4-Bromofluorobenzene (S)	%						95.4	93.8	67.0-138														
1,2-Dichloroethane-d4 (S)	%						110	111	70.0-130														

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506678

QC Batch: 1581275 Analysis Method: EPA 8260D  
QC Batch Method: 5035A Analysis Description: VOA (GC/MS) 8260D  
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506678016, 92506678017, 92506678018, 92506678019, 92506678020, 92506678021, 92506678022, 92506678023, 92506678024, 92506678025, 92506678026

METHOD BLANK: R3596816-3

Matrix: Solid

Associated Lab Samples: 92506678016, 92506678017, 92506678018, 92506678019, 92506678020, 92506678021, 92506678022, 92506678023, 92506678024, 92506678025, 92506678026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	mg/kg	<0.0500	0.0500	0.0365	11/23/20 23:02	
Acrylonitrile	mg/kg	<0.0125	0.0125	0.00361	11/23/20 23:02	
Benzene	mg/kg	<0.00100	0.00100	0.000467	11/23/20 23:02	
Bromobenzene	mg/kg	<0.0125	0.0125	0.000900	11/23/20 23:02	
Bromodichloromethane	mg/kg	<0.00250	0.00250	0.000725	11/23/20 23:02	
Bromoform	mg/kg	<0.0250	0.0250	0.00117	11/23/20 23:02	
Bromomethane	mg/kg	<0.0125	0.0125	0.00197	11/23/20 23:02	
n-Butylbenzene	mg/kg	<0.0125	0.0125	0.00525	11/23/20 23:02	
sec-Butylbenzene	mg/kg	<0.0125	0.0125	0.00288	11/23/20 23:02	
tert-Butylbenzene	mg/kg	<0.00500	0.00500	0.00195	11/23/20 23:02	
Carbon tetrachloride	mg/kg	<0.00500	0.00500	0.000898	11/23/20 23:02	
Chlorobenzene	mg/kg	<0.00250	0.00250	0.000210	11/23/20 23:02	
Dibromochloromethane	mg/kg	<0.00250	0.00250	0.000612	11/23/20 23:02	
Chloroethane	mg/kg	<0.00500	0.00500	0.00170	11/23/20 23:02	
Chloroform	mg/kg	<0.00250	0.00250	0.00103	11/23/20 23:02	
Chloromethane	mg/kg	<0.0125	0.0125	0.00435	11/23/20 23:02	
2-Chlorotoluene	mg/kg	<0.00250	0.00250	0.000865	11/23/20 23:02	
4-Chlorotoluene	mg/kg	<0.00500	0.00500	0.000450	11/23/20 23:02	
1,2-Dibromo-3-chloropropane	mg/kg	<0.0250	0.0250	0.00390	11/23/20 23:02	
1,2-Dibromoethane (EDB)	mg/kg	<0.00250	0.00250	0.000648	11/23/20 23:02	
Dibromomethane	mg/kg	<0.00500	0.00500	0.000750	11/23/20 23:02	
1,2-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000425	11/23/20 23:02	
1,3-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000600	11/23/20 23:02	
1,4-Dichlorobenzene	mg/kg	<0.00500	0.00500	0.000700	11/23/20 23:02	
Dichlorodifluoromethane	mg/kg	<0.00250	0.00250	0.00161	11/23/20 23:02	
1,1-Dichloroethane	mg/kg	<0.00250	0.00250	0.000491	11/23/20 23:02	
1,2-Dichloroethane	mg/kg	<0.00250	0.00250	0.000649	11/23/20 23:02	
1,1-Dichloroethene	mg/kg	<0.00250	0.00250	0.000606	11/23/20 23:02	
cis-1,2-Dichloroethene	mg/kg	<0.00250	0.00250	0.000734	11/23/20 23:02	
trans-1,2-Dichloroethene	mg/kg	<0.00500	0.00500	0.00104	11/23/20 23:02	
1,2-Dichloropropane	mg/kg	<0.00500	0.00500	0.00142	11/23/20 23:02	
1,1-Dichloropropene	mg/kg	<0.00250	0.00250	0.000809	11/23/20 23:02	
1,3-Dichloropropane	mg/kg	<0.00500	0.00500	0.000501	11/23/20 23:02	
cis-1,3-Dichloropropene	mg/kg	<0.00250	0.00250	0.000757	11/23/20 23:02	
trans-1,3-Dichloropropene	mg/kg	<0.00500	0.00500	0.00114	11/23/20 23:02	
2,2-Dichloropropane	mg/kg	<0.00250	0.00250	0.00138	11/23/20 23:02	
Diisopropyl ether	mg/kg	<0.00100	0.00100	0.000410	11/23/20 23:02	
Ethylbenzene	mg/kg	<0.00250	0.00250	0.000737	11/23/20 23:02	
Hexachloro-1,3-butadiene	mg/kg	<0.0250	0.0250	0.00600	11/23/20 23:02	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506678

METHOD BLANK: R3596816-3

Matrix: Solid

Associated Lab Samples: 92506678016, 92506678017, 92506678018, 92506678019, 92506678020, 92506678021, 92506678022, 92506678023, 92506678024, 92506678025, 92506678026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	mg/kg	<0.00250	0.00250	0.000425	11/23/20 23:02	
p-Isopropyltoluene	mg/kg	<0.00500	0.00500	0.00255	11/23/20 23:02	
2-Butanone (MEK)	mg/kg	<0.100	0.100	0.0635	11/23/20 23:02	
Methylene Chloride	mg/kg	<0.0250	0.0250	0.00664	11/23/20 23:02	
4-Methyl-2-pentanone (MIBK)	mg/kg	<0.0250	0.0250	0.00228	11/23/20 23:02	
Methyl-tert-butyl ether	mg/kg	<0.00100	0.00100	0.000350	11/23/20 23:02	
Naphthalene	mg/kg	<0.0125	0.0125	0.00488	11/23/20 23:02	
n-Propylbenzene	mg/kg	<0.00500	0.00500	0.000950	11/23/20 23:02	
Styrene	mg/kg	<0.0125	0.0125	0.000229	11/23/20 23:02	
1,1,1,2-Tetrachloroethane	mg/kg	<0.00250	0.00250	0.000948	11/23/20 23:02	
1,1,2,2-Tetrachloroethane	mg/kg	<0.00250	0.00250	0.000695	11/23/20 23:02	
Tetrachloroethene	mg/kg	<0.00250	0.00250	0.000896	11/23/20 23:02	
Toluene	mg/kg	<0.00500	0.00500	0.00130	11/23/20 23:02	
1,1,2-Trichlorotrifluoroethane	mg/kg	<0.00250	0.00250	0.000754	11/23/20 23:02	
1,2,3-Trichlorobenzene	mg/kg	<0.0125	0.0125	0.00733	11/23/20 23:02	
1,2,4-Trichlorobenzene	mg/kg	<0.0125	0.0125	0.00440	11/23/20 23:02	
1,1,1-Trichloroethane	mg/kg	<0.00250	0.00250	0.000923	11/23/20 23:02	
1,1,2-Trichloroethane	mg/kg	<0.00250	0.00250	0.000597	11/23/20 23:02	
Trichloroethene	mg/kg	<0.00100	0.00100	0.000584	11/23/20 23:02	
Trichlorofluoromethane	mg/kg	<0.00250	0.00250	0.000827	11/23/20 23:02	
1,2,3-Trichloropropane	mg/kg	<0.0125	0.0125	0.00162	11/23/20 23:02	
1,2,3-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/23/20 23:02	
1,2,4-Trimethylbenzene	mg/kg	0.00193J	0.00500	0.00158	11/23/20 23:02	J
1,3,5-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00200	11/23/20 23:02	
Vinyl chloride	mg/kg	<0.00250	0.00250	0.00116	11/23/20 23:02	
Xylene (Total)	mg/kg	0.00100J	0.00650	0.000880	11/23/20 23:02	J
Toluene-d8 (S)	%	111	75.0-131		11/23/20 23:02	
4-Bromofluorobenzene (S)	%	92.7	67.0-138		11/23/20 23:02	
1,2-Dichloroethane-d4 (S)	%	105	70.0-130		11/23/20 23:02	

LABORATORY CONTROL SAMPLE & LCSD: R3596816-1

R3596816-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	mg/kg	0.625	0.748	0.803	120	128	10.0-160	7.09	31	
Acrylonitrile	mg/kg	0.625	0.764	0.788	122	126	45.0-153	3.09	22	
Benzene	mg/kg	0.125	0.129	0.129	103	103	70.0-123	0.00	20	
Bromobenzene	mg/kg	0.125	0.141	0.139	113	111	73.0-121	1.43	20	
Bromodichloromethane	mg/kg	0.125	0.134	0.130	107	104	73.0-121	3.03	20	
Bromoform	mg/kg	0.125	0.134	0.131	107	105	64.0-132	2.26	20	
Bromomethane	mg/kg	0.125	0.124	0.123	99.2	98.4	56.0-147	0.810	20	
n-Butylbenzene	mg/kg	0.125	0.132	0.125	106	100	68.0-135	5.45	20	
sec-Butylbenzene	mg/kg	0.125	0.136	0.135	109	108	74.0-130	0.738	20	
tert-Butylbenzene	mg/kg	0.125	0.134	0.130	107	104	75.0-127	3.03	20	

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506678

LABORATORY CONTROL SAMPLE & LCSD:		R3596816-1		R3596816-2							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Carbon tetrachloride	mg/kg	0.125	0.131	0.140	105	112	66.0-128	6.64	20		
Chlorobenzene	mg/kg	0.125	0.129	0.126	103	101	76.0-128	2.35	20		
Dibromochloromethane	mg/kg	0.125	0.123	0.123	98.4	98.4	74.0-127	0.00	20		
Chloroethane	mg/kg	0.125	0.117	0.133	93.6	106	61.0-134	12.8	20		
Chloroform	mg/kg	0.125	0.133	0.134	106	107	72.0-123	0.749	20		
Chloromethane	mg/kg	0.125	0.169	0.145	135	116	51.0-138	15.3	20		
2-Chlorotoluene	mg/kg	0.125	0.142	0.143	114	114	75.0-124	0.702	20		
4-Chlorotoluene	mg/kg	0.125	0.146	0.142	117	114	75.0-124	2.78	20		
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.127	0.123	102	98.4	59.0-130	3.20	20		
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.131	0.128	105	102	74.0-128	2.32	20		
Dibromomethane	mg/kg	0.125	0.126	0.131	101	105	75.0-122	3.89	20		
1,2-Dichlorobenzene	mg/kg	0.125	0.135	0.125	108	100	76.0-124	7.69	20		
1,3-Dichlorobenzene	mg/kg	0.125	0.134	0.131	107	105	76.0-125	2.26	20		
1,4-Dichlorobenzene	mg/kg	0.125	0.130	0.128	104	102	77.0-121	1.55	20		
Dichlorodifluoromethane	mg/kg	0.125	0.157	0.152	126	122	43.0-156	3.24	20		
1,1-Dichloroethane	mg/kg	0.125	0.140	0.142	112	114	70.0-127	1.42	20		
1,2-Dichloroethane	mg/kg	0.125	0.128	0.130	102	104	65.0-131	1.55	20		
1,1-Dichloroethene	mg/kg	0.125	0.152	0.154	122	123	65.0-131	1.31	20		
cis-1,2-Dichloroethene	mg/kg	0.125	0.139	0.142	111	114	73.0-125	2.14	20		
trans-1,2-Dichloroethene	mg/kg	0.125	0.134	0.129	107	103	71.0-125	3.80	20		
1,2-Dichloropropane	mg/kg	0.125	0.140	0.127	112	102	74.0-125	9.74	20		
1,1-Dichloropropene	mg/kg	0.125	0.136	0.132	109	106	73.0-125	2.99	20		
1,3-Dichloropropane	mg/kg	0.125	0.142	0.134	114	107	80.0-125	5.80	20		
cis-1,3-Dichloropropene	mg/kg	0.125	0.133	0.128	106	102	76.0-127	3.83	20		
trans-1,3-Dichloropropene	mg/kg	0.125	0.149	0.137	119	110	73.0-127	8.39	20		
2,2-Dichloropropane	mg/kg	0.125	0.127	0.136	102	109	59.0-135	6.84	20		
Diisopropyl ether	mg/kg	0.125	0.136	0.142	109	114	60.0-136	4.32	20		
Ethylbenzene	mg/kg	0.125	0.131	0.128	105	102	74.0-126	2.32	20		
Hexachloro-1,3-butadiene	mg/kg	0.125	0.139	0.116	111	92.8	57.0-150	18.0	20		
Isopropylbenzene (Cumene)	mg/kg	0.125	0.128	0.127	102	102	72.0-127	0.784	20		
p-Isopropyltoluene	mg/kg	0.125	0.129	0.129	103	103	72.0-133	0.00	20		
2-Butanone (MEK)	mg/kg	0.625	0.762	0.734	122	117	30.0-160	3.74	24		
Methylene Chloride	mg/kg	0.125	0.139	0.144	111	115	68.0-123	3.53	20		
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.709	0.694	113	111	56.0-143	2.14	20		
Methyl-tert-butyl ether	mg/kg	0.125	0.144	0.146	115	117	66.0-132	1.38	20		
Naphthalene	mg/kg	0.125	0.107	0.0879	85.6	70.3	59.0-130	19.6	20		
n-Propylbenzene	mg/kg	0.125	0.151	0.150	121	120	74.0-126	0.664	20		
Styrene	mg/kg	0.125	0.122	0.121	97.6	96.8	72.0-127	0.823	20		
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.127	0.121	102	96.8	74.0-129	4.84	20		
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.143	0.139	114	111	68.0-128	2.84	20		
Tetrachloroethene	mg/kg	0.125	0.144	0.137	115	110	70.0-136	4.98	20		
Toluene	mg/kg	0.125	0.137	0.128	110	102	75.0-121	6.79	20		
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.118	0.120	94.4	96.0	61.0-139	1.68	20		
1,2,3-Trichlorobenzene	mg/kg	0.125	0.128	0.103	102	82.4	59.0-139	21.6	20	R1	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.123	0.101	98.4	80.8	62.0-137	19.6	20		
1,1,1-Trichloroethane	mg/kg	0.125	0.132	0.131	106	105	69.0-126	0.760	20		
1,1,2-Trichloroethane	mg/kg	0.125	0.135	0.128	108	102	78.0-123	5.32	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506678

LABORATORY CONTROL SAMPLE & LCSD: R3596816-1		R3596816-2									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Trichloroethene	mg/kg	0.125	0.121	0.126	96.8	101	76.0-126	4.05	20		
Trichlorofluoromethane	mg/kg	0.125	0.140	0.142	112	114	61.0-142	1.42	20		
1,2,3-Trichloropropane	mg/kg	0.125	0.142	0.146	114	117	67.0-129	2.78	20		
1,2,3-Trimethylbenzene	mg/kg	0.125	0.134	0.131	107	105	74.0-124	2.26	20		
1,2,4-Trimethylbenzene	mg/kg	0.125	0.137	0.135	110	108	70.0-126	1.47	20		
1,3,5-Trimethylbenzene	mg/kg	0.125	0.144	0.141	115	113	73.0-127	2.11	20		
Vinyl chloride	mg/kg	0.125	0.145	0.133	116	106	63.0-134	8.63	20		
Xylene (Total)	mg/kg	0.375	0.378	0.380	101	101	72.0-127	0.528	20		
Toluene-d8 (S)	%				108	106	75.0-131				
4-Bromofluorobenzene (S)	%				93.7	95.4	67.0-138				
1,2-Dichloroethane-d4 (S)	%				109	112	70.0-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3596816-4		R3596816-5											
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92506678026 Result	Spike Conc.	Spike Conc.	MSD Conc.								
Acetone	mg/kg	ND	1.62	1.62	0.826	7.49	51.0	462	10.0-160	160	40	MH,R1	
Acrylonitrile	mg/kg	ND	1.62	1.62	1.73	1.92	107	118	10.0-160	10.3	40		
Bromobenzene	mg/kg	ND	0.326	0.326	0.236	0.212	72.5	65.2	10.0-156	10.5	38		
Benzene	mg/kg	0.0222	0.326	0.326	0.175	0.165	46.8	43.9	10.0-149	5.56	37		
Bromodichloromethane	mg/kg	ND	0.326	0.326	0.215	0.201	66.2	61.8	10.0-143	6.79	37		
Bromoforn	mg/kg	ND	0.326	0.326	0.267	0.267	82.1	82.1	10.0-146	0.00	36		
Bromomethane	mg/kg	ND	0.326	0.326	0.114	0.0928	34.9	28.5	10.0-149	20.1	38		
n-Butylbenzene	mg/kg	ND	0.326	0.326	0.193	0.184	59.4	56.5	10.0-160	5.00	40		
sec-Butylbenzene	mg/kg	ND	0.326	0.326	0.193	0.184	59.4	56.5	10.0-159	5.00	39		
tert-Butylbenzene	mg/kg	ND	0.326	0.326	0.184	0.171	56.5	52.7	10.0-156	7.08	39		
Carbon tetrachloride	mg/kg	ND	0.326	0.326	0.114	0.112	34.9	34.4	10.0-145	1.39	37		
Chlorobenzene	mg/kg	ND	0.326	0.326	0.178	0.173	54.6	53.1	10.0-152	2.69	39		
Dibromochloromethane	mg/kg	ND	0.326	0.326	0.220	0.215	67.6	66.2	10.0-146	2.17	37		
Chloroethane	mg/kg	ND	0.326	0.326	0.0723	0.0226	22.2	6.96	10.0-146	105	40	ML,R1	
Chloroform	mg/kg	ND	0.326	0.326	0.168	0.168	51.7	51.7	10.0-146	0.00	37		
Chloromethane	mg/kg	ND	0.326	0.326	0.132	0.129	40.7	39.7	10.0-159	2.40	37		
2-Chlorotoluene	mg/kg	ND	0.326	0.326	0.197	0.182	60.4	56.0	10.0-159	7.47	38		
4-Chlorotoluene	mg/kg	ND	0.326	0.326	0.217	0.195	66.7	59.9	10.0-155	10.7	39		
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.326	0.326	0.280	0.269	86.0	82.6	10.0-151	4.01	39		
Dibromomethane	mg/kg	ND	0.326	0.326	0.245	0.236	75.4	72.5	10.0-147	3.92	35		
1,2-Dibromoethane (EDB)	mg/kg	ND	0.326	0.326	0.267	0.263	82.1	80.7	10.0-148	1.78	34		
1,2-Dichlorobenzene	mg/kg	ND	0.326	0.326	0.233	0.211	71.5	64.7	10.0-155	9.93	37		
1,3-Dichlorobenzene	mg/kg	ND	0.326	0.326	0.208	0.189	63.8	58.0	10.0-153	9.52	38		
1,4-Dichlorobenzene	mg/kg	ND	0.326	0.326	0.209	0.197	64.3	60.4	10.0-151	6.20	38		
Dichlorodifluoromethane	mg/kg	ND	0.326	0.326	0.104	0.0953	31.9	29.3	10.0-160	8.53	35		
1,1-Dichloroethane	mg/kg	ND	0.326	0.326	0.165	0.157	50.7	48.3	10.0-147	4.88	37		
1,1-Dichloroethene	mg/kg	ND	0.326	0.326	0.131	0.118	40.1	36.4	10.0-155	9.85	37		
1,2-Dichloroethane	mg/kg	ND	0.326	0.326	0.228	0.234	70.0	72.0	10.0-148	2.72	35		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3596816-4												R3596816-5											
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual										
		92506678026 Result	Spike Conc.	Spike Conc.	MS Conc.																		
cis-1,2-Dichloroethene	mg/kg	ND	0.326	0.326	0.182	0.175	56.0	53.6	10.0-149	4.41	37												
trans-1,2-Dichloroethene	mg/kg	ND	0.326	0.326	0.130	0.127	39.9	38.9	10.0-150	2.33	37												
1,2-Dichloropropane	mg/kg	ND	0.326	0.326	0.206	0.201	63.3	61.8	10.0-148	2.32	37												
1,1-Dichloropropene	mg/kg	ND	0.326	0.326	0.123	0.114	37.7	35.0	10.0-153	7.31	35												
1,3-Dichloropropane	mg/kg	ND	0.326	0.326	0.281	0.269	86.5	82.6	10.0-154	4.57	35												
cis-1,3-Dichloropropene	mg/kg	ND	0.326	0.326	0.215	0.209	66.2	64.3	10.0-151	2.96	37												
trans-1,3-Dichloropropene	mg/kg	ND	0.326	0.326	0.272	0.266	83.6	81.6	10.0-148	2.34	37												
2,2-Dichloropropane	mg/kg	ND	0.326	0.326	0.103	0.0984	31.6	30.2	10.0-138	4.37	36												
Diisopropyl ether	mg/kg	ND	0.326	0.326	0.247	0.245	75.8	75.4	10.0-147	0.639	36												
Ethylbenzene	mg/kg	0.0168	0.326	0.326	0.168	0.162	46.5	44.6	10.0-160	3.81	38												
Hexachloro-1,3-butadiene	mg/kg	ND	0.326	0.326	0.209	0.200	64.3	61.4	10.0-160	4.62	40												
Isopropylbenzene (Cumene)	mg/kg	ND	0.326	0.326	0.150	0.146	45.9	44.9	10.0-155	2.34	38												
p-Isopropyltoluene	mg/kg	ND	0.326	0.326	0.187	0.175	57.5	53.6	10.0-160	6.96	40												
2-Butanone (MEK)	mg/kg	ND	1.62	1.62	1.29	1.79	79.7	111	10.0-160	32.5	40												
Methylene Chloride	mg/kg	0.0178	0.326	0.326	0.190	0.219	53.0	61.7	10.0-141	13.8	37												
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	1.62	1.62	1.71	1.81	106	112	10.0-160	5.36	35												
Methyl-tert-butyl ether	mg/kg	0.0582	0.326	0.326	0.302	0.326	74.9	82.1	11.0-147	7.52	35												
Naphthalene	mg/kg	ND	0.326	0.326	0.281	0.274	86.5	84.1	10.0-160	2.83	36												
n-Propylbenzene	mg/kg	ND	0.326	0.326	0.201	0.186	61.8	57.0	10.0-158	8.13	38												
Styrene	mg/kg	ND	0.326	0.326	0.175	0.170	53.6	52.2	10.0-160	2.74	40												
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.326	0.326	0.189	0.181	58.0	55.6	10.0-149	4.26	39												
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.326	0.326	0.338	0.300	104	92.3	10.0-160	11.8	35												
Tetrachloroethene	mg/kg	ND	0.326	0.326	0.143	0.133	43.8	40.9	10.0-156	6.84	39												
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.326	0.326	0.0826	0.0722	25.4	22.2	10.0-160	13.4	36												
1,2,3-Trichlorobenzene	mg/kg	ND	0.326	0.326	0.294	0.255	90.3	78.3	10.0-160	14.3	40												
Toluene	mg/kg	0.147	0.326	0.326	0.277	0.263	39.8	35.5	10.0-156	5.25	38												
1,2,4-Trichlorobenzene	mg/kg	ND	0.326	0.326	0.241	0.219	73.9	67.1	10.0-160	9.59	40												
1,1,1-Trichloroethane	mg/kg	ND	0.326	0.326	0.109	0.112	33.5	34.4	10.0-144	2.70	35												
1,1,2-Trichloroethane	mg/kg	ND	0.326	0.326	0.270	0.264	83.1	81.2	10.0-160	2.35	35												
Trichloroethene	mg/kg	ND	0.326	0.326	0.143	0.140	44.0	43.1	10.0-156	1.89	38												
Trichlorofluoromethane	mg/kg	ND	0.326	0.326	0.0783	0.0659	24.1	20.2	10.0-160	17.2	40												
1,2,3-Trichloropropane	mg/kg	ND	0.326	0.326	0.349	0.321	107	98.6	10.0-156	8.45	35												
1,2,3-Trimethylbenzene	mg/kg	ND	0.326	0.326	0.212	0.198	65.2	60.9	10.0-160	6.90	36												
1,2,4-Trimethylbenzene	mg/kg	0.00538	0.326	0.326	0.201	0.189	60.2	56.3	10.0-160	6.45	36												
1,3,5-Trimethylbenzene	mg/kg	ND	0.326	0.326	0.200	0.181	61.4	55.6	10.0-160	9.92	38												
Vinyl chloride	mg/kg	ND	0.326	0.326	0.101	0.108	31.0	33.0	10.0-160	6.33	37												
Xylene (Total)	mg/kg	0.0722	0.973	0.973	0.508	0.525	44.8	46.5	10.0-160	3.35	38												
Toluene-d8 (S)	%						109	108	75.0-131														
4-Bromofluorobenzene (S)	%						89.8	93.9	67.0-138														
1,2-Dichloroethane-d4 (S)	%						102	111	70.0-130														

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506678

QC Batch:	1582736	Analysis Method:	EPA 8260D
QC Batch Method:	5035A	Analysis Description:	VOA (GC/MS) 8260D
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506678001, 92506678003, 92506678004, 92506678006, 92506678007, 92506678008, 92506678009, 92506678010, 92506678011, 92506678013, 92506678014

METHOD BLANK: R3598070-3 Matrix: Solid  
Associated Lab Samples: 92506678001, 92506678003, 92506678004, 92506678006, 92506678007, 92506678008, 92506678009, 92506678010, 92506678011, 92506678013, 92506678014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Chlorotoluene	mg/kg	<0.00250	0.00250	0.000865	11/27/20 10:43	
Ethylbenzene	mg/kg	<0.00250	0.00250	0.000737	11/27/20 10:43	
n-Propylbenzene	mg/kg	<0.00500	0.00500	0.000950	11/27/20 10:43	
Toluene	mg/kg	<0.00500	0.00500	0.00130	11/27/20 10:43	
1,2,3-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/27/20 10:43	
1,2,4-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/27/20 10:43	
1,3,5-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00200	11/27/20 10:43	
Xylene (Total)	mg/kg	<0.00650	0.00650	0.000880	11/27/20 10:43	
Toluene-d8 (S)	%	109	75.0-131		11/27/20 10:43	
4-Bromofluorobenzene (S)	%	94.3	67.0-138		11/27/20 10:43	
1,2-Dichloroethane-d4 (S)	%	109	70.0-130		11/27/20 10:43	

Parameter	Units	R3598070-1		R3598070-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec				
2-Chlorotoluene	mg/kg	0.125	0.139	0.137	111	110	75.0-124	1.45	20
Ethylbenzene	mg/kg	0.125	0.125	0.122	100	97.6	74.0-126	2.43	20
n-Propylbenzene	mg/kg	0.125	0.146	0.148	117	118	74.0-126	1.36	20
Toluene	mg/kg	0.125	0.130	0.123	104	98.4	75.0-121	5.53	20
1,2,3-Trimethylbenzene	mg/kg	0.125	0.123	0.126	98.4	101	74.0-124	2.41	20
1,2,4-Trimethylbenzene	mg/kg	0.125	0.128	0.130	102	104	70.0-126	1.55	20
1,3,5-Trimethylbenzene	mg/kg	0.125	0.135	0.135	108	108	73.0-127	0.00	20
Xylene (Total)	mg/kg	0.375	0.370	0.366	98.7	97.6	72.0-127	1.09	20
Toluene-d8 (S)	%				107	104	75.0-131		
4-Bromofluorobenzene (S)	%				92.8	94.8	67.0-138		
1,2-Dichloroethane-d4 (S)	%				111	119	70.0-130		

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### QUALITY CONTROL DATA

Project: 2020-LI-2448  
Pace Project No.: 92506678

QC Batch: 1583608	Analysis Method: EPA 8260D
QC Batch Method: 5035A	Analysis Description: VOA (GC/MS) 8260D
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506678005

METHOD BLANK: R3598363-3 Matrix: Solid  
Associated Lab Samples: 92506678005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	mg/kg	<0.00250	0.00250	0.000737	11/29/20 18:36	
n-Propylbenzene	mg/kg	<0.00500	0.00500	0.000950	11/29/20 18:36	
Toluene	mg/kg	<0.00500	0.00500	0.00130	11/29/20 18:36	
1,2,3-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/29/20 18:36	
1,2,4-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00158	11/29/20 18:36	
1,3,5-Trimethylbenzene	mg/kg	<0.00500	0.00500	0.00200	11/29/20 18:36	
Xylene (Total)	mg/kg	<0.00650	0.00650	0.000880	11/29/20 18:36	
Toluene-d8 (S)	%	108	75.0-131		11/29/20 18:36	
4-Bromofluorobenzene (S)	%	92.1	67.0-138		11/29/20 18:36	
1,2-Dichloroethane-d4 (S)	%	109	70.0-130		11/29/20 18:36	

LABORATORY CONTROL SAMPLE & LCSD: R3598363-1 R3598363-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethylbenzene	mg/kg	0.125	0.125	0.123	100	98.4	74.0-126	1.61	20	
n-Propylbenzene	mg/kg	0.125	0.142	0.142	114	114	74.0-126	0.00	20	
Toluene	mg/kg	0.125	0.124	0.121	99.2	96.8	75.0-121	2.45	20	
1,2,3-Trimethylbenzene	mg/kg	0.125	0.123	0.121	98.4	96.8	74.0-124	1.64	20	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.126	0.125	101	100	70.0-126	0.797	20	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.129	0.132	103	106	73.0-127	2.30	20	
Xylene (Total)	mg/kg	0.375	0.374	0.354	99.7	94.4	72.0-127	5.49	20	
Toluene-d8 (S)	%				104	102	75.0-131			
4-Bromofluorobenzene (S)	%				98.8	96.9	67.0-138			
1,2-Dichloroethane-d4 (S)	%				112	117	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506678

QC Batch: 1581972

Analysis Method: SM 2540G

QC Batch Method: SM 2540 G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506678001

METHOD BLANK: R3597438-1

Matrix: Solid

Associated Lab Samples: 92506678001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	ND			11/25/20 04:13	

LABORATORY CONTROL SAMPLE: R3597438-2

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

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506678

QC Batch: 1581973

Analysis Method: SM 2540G

QC Batch Method: SM 2540 G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506678002, 92506678003, 92506678004, 92506678005, 92506678006, 92506678007, 92506678008, 92506678009, 92506678010, 92506678011

METHOD BLANK: R3597381-1

Matrix: Solid

Associated Lab Samples: 92506678002, 92506678003, 92506678004, 92506678005, 92506678006, 92506678007, 92506678008, 92506678009, 92506678010, 92506678011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	0.00100			11/25/20 05:57	

LABORATORY CONTROL SAMPLE: R3597381-2

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

SAMPLE DUPLICATE: R3597381-3

Parameter	Units	92506678002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	73.1	76.3	4.20	10	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506678

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QC Batch:	1581974	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540 G	Analysis Description:	Total Solids 2540 G-2011
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506678012, 92506678013, 92506678014, 92506678015, 92506678016, 92506678017, 92506678018, 92506678019, 92506678020, 92506678021

---

METHOD BLANK: R3597379-1 Matrix: Solid

Associated Lab Samples: 92506678012, 92506678013, 92506678014, 92506678015, 92506678016, 92506678017, 92506678018, 92506678019, 92506678020, 92506678021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	0.00100			11/25/20 05:43	

---

LABORATORY CONTROL SAMPLE: R3597379-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.1	100	85.0-115	

---

SAMPLE DUPLICATE: R3597379-3

Parameter	Units	92506678012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	76.2	76.8	0.795	10	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-LI-2448

Pace Project No.: 92506678

QC Batch:	1581975	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540 G	Analysis Description:	Total Solids 2540 G-2011
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92506678022, 92506678023, 92506678024, 92506678025, 92506678026

METHOD BLANK: R3597820-1 Matrix: Solid  
Associated Lab Samples: 92506678022, 92506678023, 92506678024, 92506678025, 92506678026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	0.0150			11/26/20 07:55	

LABORATORY CONTROL SAMPLE: R3597820-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.2	100	85.0-115	

SAMPLE DUPLICATE: R3597820-3

Parameter	Units	92506678022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	76.5	75.8	0.883	10	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-LI-2448

Pace Project No.: 92506678

---

### 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.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

C3 The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

C4 The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.

C5 The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

MH Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

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.

ST Surrogate recovery was above laboratory control limits. Results may be biased high.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448

Pace Project No.: 92506678

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506678001	200-W	MADEPV	1581281	MADEP VPH	1581281
92506678001	200-W	MADEPV	1582633	MADEP VPH	1582633
92506678002	200-B	MADEPV	1581281	MADEP VPH	1581281
92506678002	200-B	MADEPV	1582633	MADEP VPH	1582633
92506678003	200-E	MADEPV	1582633	MADEP VPH	1582633
92506678004	225-W	MADEPV	1582633	MADEP VPH	1582633
92506678005	225-B	MADEPV	1581281	MADEP VPH	1581281
92506678006	225-E	MADEPV	1581281	MADEP VPH	1581281
92506678006	225-E	MADEPV	1582633	MADEP VPH	1582633
92506678007	250-W	MADEPV	1582633	MADEP VPH	1582633
92506678008	250-B	MADEPV	1582633	MADEP VPH	1582633
92506678009	250-E	MADEPV	1582633	MADEP VPH	1582633
92506678010	275-W	MADEPV	1581281	MADEP VPH	1581281
92506678010	275-W	MADEPV	1582633	MADEP VPH	1582633
92506678011	275-B	MADEPV	1581281	MADEP VPH	1581281
92506678012	275-E	MADEPV	1581281	MADEP VPH	1581281
92506678013	300-W	MADEPV	1581281	MADEP VPH	1581281
92506678014	300-B	MADEPV	1582633	MADEP VPH	1582633
92506678015	300-E	MADEPV	1581671	MADEP VPH	1581671
92506678015	300-E	MADEPV	1584348	MADEP VPH	1584348
92506678016	325-W	MADEPV	1581671	MADEP VPH	1581671
92506678017	325-B	MADEPV	1581671	MADEP VPH	1581671
92506678018	325-E	MADEPV	1581671	MADEP VPH	1581671
92506678019	350-W	MADEPV	1581671	MADEP VPH	1581671
92506678020	350-B	MADEPV	1581671	MADEP VPH	1581671
92506678021	350-E	MADEPV	1581671	MADEP VPH	1581671
92506678022	375-W	MADEPV	1581671	MADEP VPH	1581671
92506678023	375-B	MADEPV	1581671	MADEP VPH	1581671
92506678024	375-E	MADEPV	1581671	MADEP VPH	1581671
92506678025	North Wall	MADEPV	1581671	MADEP VPH	1581671
92506678026	South Wall	MADEPV	1584348	MADEP VPH	1584348
92506678001	200-W	5035A	1581174	EPA 8260D	1581174
92506678001	200-W	5035A	1582736	EPA 8260D	1582736
92506678002	200-B	5035A	1581174	EPA 8260D	1581174
92506678003	200-E	5035A	1581174	EPA 8260D	1581174
92506678003	200-E	5035A	1582736	EPA 8260D	1582736
92506678004	225-W	5035A	1581174	EPA 8260D	1581174
92506678004	225-W	5035A	1582736	EPA 8260D	1582736
92506678005	225-B	5035A	1581174	EPA 8260D	1581174

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448  
Pace Project No.: 92506678

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506678005	225-B	5035A	1583608	EPA 8260D	1583608
92506678006	225-E	5035A	1581174	EPA 8260D	1581174
92506678006	225-E	5035A	1582736	EPA 8260D	1582736
92506678007	250-W	5035A	1581174	EPA 8260D	1581174
92506678007	250-W	5035A	1582736	EPA 8260D	1582736
92506678008	250-B	5035A	1581174	EPA 8260D	1581174
92506678008	250-B	5035A	1582736	EPA 8260D	1582736
92506678009	250-E	5035A	1581174	EPA 8260D	1581174
92506678009	250-E	5035A	1582736	EPA 8260D	1582736
92506678010	275-W	5035A	1581174	EPA 8260D	1581174
92506678010	275-W	5035A	1582736	EPA 8260D	1582736
92506678011	275-B	5035A	1581174	EPA 8260D	1581174
92506678011	275-B	5035A	1582736	EPA 8260D	1582736
92506678012	275-E	5035A	1581174	EPA 8260D	1581174
92506678013	300-W	5035A	1581174	EPA 8260D	1581174
92506678013	300-W	5035A	1582736	EPA 8260D	1582736
92506678014	300-B	5035A	1581174	EPA 8260D	1581174
92506678014	300-B	5035A	1582736	EPA 8260D	1582736
92506678015	300-E	5035A	1581174	EPA 8260D	1581174
92506678016	325-W	5035A	1581275	EPA 8260D	1581275
92506678017	325-B	5035A	1581275	EPA 8260D	1581275
92506678018	325-E	5035A	1581275	EPA 8260D	1581275
92506678019	350-W	5035A	1581275	EPA 8260D	1581275
92506678020	350-B	5035A	1581275	EPA 8260D	1581275
92506678021	350-E	5035A	1581275	EPA 8260D	1581275
92506678022	375-W	5035A	1581275	EPA 8260D	1581275
92506678023	375-B	5035A	1581275	EPA 8260D	1581275
92506678024	375-E	5035A	1581275	EPA 8260D	1581275
92506678025	North Wall	5035A	1581275	EPA 8260D	1581275
92506678026	South Wall	5035A	1581275	EPA 8260D	1581275
92506678001	200-W	SM 2540 G	1581972	SM 2540G	1581972
92506678002	200-B	SM 2540 G	1581973	SM 2540G	1581973
92506678003	200-E	SM 2540 G	1581973	SM 2540G	1581973
92506678004	225-W	SM 2540 G	1581973	SM 2540G	1581973
92506678005	225-B	SM 2540 G	1581973	SM 2540G	1581973
92506678006	225-E	SM 2540 G	1581973	SM 2540G	1581973
92506678007	250-W	SM 2540 G	1581973	SM 2540G	1581973
92506678008	250-B	SM 2540 G	1581973	SM 2540G	1581973

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448  
Pace Project No.: 92506678

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506678009	250-E	SM 2540 G	1581973	SM 2540G	1581973
92506678010	275-W	SM 2540 G	1581973	SM 2540G	1581973
92506678011	275-B	SM 2540 G	1581973	SM 2540G	1581973
92506678012	275-E	SM 2540 G	1581974	SM 2540G	1581974
92506678013	300-W	SM 2540 G	1581974	SM 2540G	1581974
92506678014	300-B	SM 2540 G	1581974	SM 2540G	1581974
92506678015	300-E	SM 2540 G	1581974	SM 2540G	1581974
92506678016	325-W	SM 2540 G	1581974	SM 2540G	1581974
92506678017	325-B	SM 2540 G	1581974	SM 2540G	1581974
92506678018	325-E	SM 2540 G	1581974	SM 2540G	1581974
92506678019	350-W	SM 2540 G	1581974	SM 2540G	1581974
92506678020	350-B	SM 2540 G	1581974	SM 2540G	1581974
92506678021	350-E	SM 2540 G	1581974	SM 2540G	1581974
92506678022	375-W	SM 2540 G	1581975	SM 2540G	1581975
92506678023	375-B	SM 2540 G	1581975	SM 2540G	1581975
92506678024	375-E	SM 2540 G	1581975	SM 2540G	1581975
92506678025	North Wall	SM 2540 G	1581975	SM 2540G	1581975
92506678026	South Wall	SM 2540 G	1581975	SM 2540G	1581975

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **Apex Companies**

Address: **Apex Companies**

Report To: **Andrew Street**

Company: **White Gorman**

Site Collection Info/Address: **Andrew Street**

Customer Project Name/Number: **2020-11-2448**

State: **NC** County/City: **Hatterasville** Time Zone Collected: **PT**

Phone: \_\_\_\_\_ Site/Facility ID #: \_\_\_\_\_

Email: \_\_\_\_\_ Compliance Monitoring?  Yes  No

Collected By (Print): **Matt Taylor** Purchase Order #: \_\_\_\_\_

Collected By (Signature): **[Signature]** Quote #: \_\_\_\_\_

Sample Disposal:  Return  Dispose as appropriate  Archive  Hold: \_\_\_\_\_

Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Turnaround Date Required: \_\_\_\_\_

Field Filtered (if applicable):  Yes  No

Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
200-W	SL	G	11/17	0925				3
200-B	SL	G	11/17	0931				3
200-E	SL	G	11/17	1343				3
225-W	SL	G	11/17	0937				3
225-B	SL	G	11/17	1601				3
225-E	SL	G	11/17	1348				3
250-W	SL	G	11/17	1013				3
250-B	SL	G	11/17	1017				3
250-E	SL	G	11/17	1353				3
250-W	SL	G	11/17	1026				3

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used:  Other  Blue  Dry  None

Packing Material Used: **Other**

Radchem sample(s) screened (<500 ppm): **Y** N NA

LAB USE ONLY - Affix Workorder/Invoice Label Here or Use Barcode Workorder Number or

**W0# : 92506678**

Cor: **92506678**

Y

Page 83 of 85

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other \_\_\_\_\_

Analyses: \_\_\_\_\_

Lab Profile/Line: \_\_\_\_\_

Lab Sample Receipt Checklist:

Custody Seals Present/Intact  Y  N

Custody Signatures Present  Y  N

Collector Signatures Present  Y  N

Bottles Intact  Y  N

Correct Bottles  Y  N

Sufficient Volume  Y  N

Samples Received on Ice  Y  N

VOA - Headspace Acceptable  Y  N

USDA Regulated Soils  Y  N

Samples in Holding Time  Y  N

Residual Chlorine Present  Y  N

CI Strips:  Y  N

Sample pH Acceptable  Y  N

pH Strips:  Y  N

Sulfide Present  Y  N

Lead Acetate Strips:  Y  N

LAB USE ONLY: \_\_\_\_\_

Lab Sample # / Comments: **92506678**

Lab Tracking #: **2560814**

SHOHT HOLDS PRESENT (<72 hours):  Y  N  N/A

Samples received via: **Aliant** FEDEX UPS Courier **MTIL LAB USE ONLY**

Table #: \_\_\_\_\_

Accum: \_\_\_\_\_

Template: \_\_\_\_\_

Prelogin: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

Lab Sample Temperature Info:

Temp Blank Received:  Y  N

Therm ID#: **121061**

Cooler 1 Temp Upon Receipt: **13.3°C**

Cooler 1 Therm Corr. Factor: **0.1°C**

Cooler 1 Corrected Temp: **1.8268**

Comments: \_\_\_\_\_

Trip Blank Received:  Y  N

HCL MEOH TSP Other

Non Conformance(s): \_\_\_\_\_

Page: \_\_\_\_\_ of: \_\_\_\_\_

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies  
 Address: Apex Companies  
 Billing Information: Complete all relevant fields

Report To: Andrew Street  
 Email To: Andrew Street  
 Copyright: Gorman  
 Site Collection Info/Address:

Customer Project Name/Number: 2020-11-2448  
 State: MC / Huntersville  
 County/City: [ ] PT [ ] MT [ ] CT [ ] VT

Phone: [ ]  
 Site/Facility ID #: [ ]  
 Email: [ ]  
 Collected By (print): [ ]  
 Collected By (signature): [ ]  
 Quote #: [ ]  
 Purchase Order #: [ ]  
 DW PWS ID #: [ ]  
 DW Location Code: [ ]  
 Compliance Monitoring? [ ] Yes [ ] No  
 Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Return [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 Archival: [ ]  
 Hold: [ ]  
 Expedite Charges Apply: [ ]  
 Field Filtered (if applicable): [ ] Yes [ ] No  
 Analysis: [ ]

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cns
			Date	Time	Date	Time		
275-B	SL	G	11/17	1031				3
275-E	SL	G	11/17	1359				3
300-W	SL	G	11/17	1046				3
300-B	SL	G	11/17	1043				2
300-F	SL	G	11/17	1404				3
325-W	SL	G	11/17	107				3
325-B	SL	G	11/17	1111				3
325-E	SL	G	11/17	1410				3
350-W	SL	G	11/17	1114				3
350-B	SL	G	11/17	1115				3

Relinquished by/Company: (Signature) [ ]  
 Date/Time: 11/18/20  
 Relinquished by/Company: (Signature) [ ]  
 Date/Time: 11/18/20  
 Relinquished by/Company: (Signature) [ ]  
 Date/Time: [ ]

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTL Log-In Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA Regulated Soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 C1 Strips: Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: Y N NA  
 Sulfide Present Y N NA  
 Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments: 97506678

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: Other

Radchem sample(s) screened (<500 ppm): Y N NA

Lab Tracking #: 2560815

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Samples received via: FEDEX UPS  Courier Pace Courier

Table #: [ ]  
 Accnum: [ ]  
 Template: [ ]  
 Prelogin: [ ]  
 PM: [ ]  
 PB: [ ]

Temp Blank Received: Y N NA  
 Therm ID#: 921061  
 Cooler 1 Temp Upon Receipt: 18.3°C  
 Cooler 1 Therm Corr. Factor: 0.9°C  
 Cooler 1 Corrected Temp: 1.8, 2e9

Comments:



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Billing Information:

Report To: Raymond Street

Email To: Raymond Street

Copy To: Walt Gorman

Site Collection Info/Address:

Customer Project Name/Number: 2020-21-2448

State: NC County/City: Huntersville Time Zone Collected: PT MT CT ET

Phone: \_\_\_\_\_

Site/Facility ID #:

Compliance Monitoring?  Yes  No

Collected By (print): Walt Gorman

Purchase Order #:

DW PWS ID #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_

Collected By (signature): Walt Gorman

Turnaround Date Required:

Immediately Packed on Ice:  Yes  No

Sample Disposal:  Return  Archive  Hold

Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Field Filtered (if applicable):  Yes  No Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Blossom (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cns
			Date	Time	Date	Time		
350-E	SL	G	11/17	1449				3
375-W	SL	G	11/17	1122				3
375-B	SL	G	11/17	1120				3
375-E	SL	G	11/17	1450				3
North Wall	SL	G	11/17	1505				3
South Wall	SL	G	11/17	1500				3

VOC 8260  
MADEP VPH

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTRIL Log-in Number Here

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact  Y  N  NA
- Custody Signatures Present  Y  N  NA
- Collector Signature Present  Y  N  NA
- Bottles Intact  Y  N  NA
- Correct Bottles  Y  N  NA
- Sufficient Volume  Y  N  NA
- Samples Received on Ice  Y  N  NA
- VOA - Headspace Acceptable  Y  N  NA
- USDA Regulated Soils  Y  N  NA
- Samples in Holding Time  Y  N  NA
- Residual Chlorine Present  Y  N  NA
- CI Strips:  Y  N  NA
- Sample pH Acceptable  Y  N  NA
- pH Strips:  Y  N  NA
- Sulfide Present  Y  N  NA
- Lead Acetate Strips:  Y  N  NA

LAB USE ONLY: Lab Sample # / Comments: 92506678

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None

SHORT HOLDS PRESENT (<72 hours):  Y  N/A

Lab Sample Temperature Info:

Packing Material Used: Other

Lab Tracking #: 2560817

Temp Blank Received: 92506678  Y  N  NA  
Therm ID#: 92506678  
Cooler 1 Temp Upon Receipt: 1.8 °C  
Cooler 1 Therm Corr. Factor: 0  
Cooler 1 Corrected Temp: 1.8 °C

Comments: 92506678

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:  FEDEX  UPS  Alient

Courier: Pace Courier

MTIL LAB USE ONLY

Relinquished by/Company (Signature) Walt Gorman 11/18/20

Date/Time:

Received by/Company (Signature) Steve Henderson

Date/Time: 11/18/20 917

Table #: \_\_\_\_\_  
Actnum: \_\_\_\_\_  
Template: \_\_\_\_\_  
Prelogin: \_\_\_\_\_

Trip Blank Received:  Y  N  NA  
HCL  MeOH  TSP  Other

Relinquished by/Company (Signature)

Date/Time:

Received by/Company (Signature)

Date/Time:

PM: \_\_\_\_\_  
PB: \_\_\_\_\_

Non Conformance(s): \_\_\_\_\_  
Page: \_\_\_\_\_ of: \_\_\_\_\_

January 22, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2448  
Pace Project No.: 92516902

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2448  
Pace Project No.: 92516902

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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 Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Virginia Certification #: VT2006  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
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

### **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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448

Pace Project No.: 92516902

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92516902001	L2-North Wall	MADEP VPH	JAH	6	PAN
		EPA 8260D	JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902002	L2-0-B	MADEP VPH	BMB	6	PAN
		EPA 8260D	JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902003	L2-0-E	MADEP VPH	BMB	6	PAN
		EPA 8260D	JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902004	L2-0-W	MADEP VPH	BMB	6	PAN
		EPA 8260D	JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902005	L2-25-B	MADEP VPH	BMB	6	PAN
		EPA 8260D	JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902006	L2-25-E	MADEP VPH	BMB	6	PAN
		EPA 8260D	JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902007	L2-25-W	MADEP VPH	BMB	6	PAN
		EPA 8260D	JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902008	L2-50-B	MADEP VPH	BMB	6	PAN
		EPA 8260D	ADM, JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902009	L2-50-E	MADEP VPH	JAH	6	PAN
		EPA 8260D	JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902010	L2-50-W	MADEP VPH	JAH	6	PAN
		EPA 8260D	JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902011	L2-75-B	MADEP VPH	BMB, GLN	5	PAN
		EPA 8260D	ADM, JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902012	L2-75-E	MADEP VPH	BMB	6	PAN
		EPA 8260D	JHH	68	PAN
		SM 2540G	KDW	1	PAN
92516902013	L2-75-W	MADEP VPH	JAH	6	PAN

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448  
Pace Project No.: 92516902

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92516902014	L2-100-B	EPA 8260D	ADM, JHH	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
92516902015	L2-100-E	EPA 8260D	ADM, JHH	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92516902016	L2-100-W	EPA 8260D	ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB	6	PAN
92516902017	L2-125-B	EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	BMB, JAH	6	PAN
92516902018	L2-125-E	EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
92516902019	L2-125-W	EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
92516902020	L2-150-B	EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
92516902021	L2-150-E	EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
92516902022	L2-150-W	EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
92516902023	L2-175-B	EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
92516902024	L2-175-E	EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
92516902025	L2-175-W	EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	ADM	68	PAN

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2448  
Pace Project No.: 92516902

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92516902026	L2-200-B	SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	ADM	68	PAN
92516902027	L2-200-E	SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	ACG, ADM	68	PAN
92516902028	L2-200-W	SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	ADM	68	PAN
92516902029	L2-225-B	SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	ADM	68	PAN
92516902030	L2-225-E	SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	ADM	68	PAN
92516902031	L2-225-W	SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	ADM	68	PAN
92516902032	L2-243-B	SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	ADM	68	PAN
92516902033	L2-243-E	SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	ADM	68	PAN
92516902034	L2-243-W	SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	BMB	68	PAN
92516902035	L2-South Wall	SM 2540G	KDW	1	PAN
		MADEP VPH	JAH	6	PAN
		EPA 8260D	BMB	68	PAN
92516902036	TB-1	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-North Wall**      **Lab ID: 92516902001**      Collected: 01/14/21 16:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	mg/kg	7.73	1	01/14/21 16:00	01/19/21 00:39		
Aliphatic (C09-C12)	ND	mg/kg	7.73	1	01/14/21 16:00	01/19/21 00:39		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	7.73	1	01/14/21 16:00	01/19/21 00:39	TPHC9C10A	
Total VPH	<b>9.31</b>	mg/kg	7.73	1	01/14/21 16:00	01/19/21 00:39	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	99.1	%	70.0-130	1	01/14/21 16:00	01/19/21 00:39	615-59-8FID	
2,5-Dibromotoluene (PID)	90.6	%	70.0-130	1	01/14/21 16:00	01/19/21 00:39	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
Acetone	ND	mg/kg	0.0758	1	01/14/21 16:00	01/17/21 12:27	67-64-1	
Acrylonitrile	ND	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	107-13-1	C3,R1
Benzene	<b>0.0194</b>	mg/kg	0.00152	1	01/14/21 16:00	01/17/21 12:27	71-43-2	
Bromobenzene	ND	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	75-27-4	
Bromoform	ND	mg/kg	0.0379	1	01/14/21 16:00	01/17/21 12:27	75-25-2	
Bromomethane	ND	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	56-23-5	
Chlorobenzene	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	124-48-1	
Chloroethane	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	75-00-3	
Chloroform	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	67-66-3	
Chloromethane	ND	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0379	1	01/14/21 16:00	01/17/21 12:27	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	106-93-4	
Dibromomethane	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-North Wall**      **Lab ID: 92516902001**      Collected: 01/14/21 16:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>		Analytical Method: EPA 8260D    Preparation Method: 5035A Pace National - Mt. Juliet						
2,2-Dichloropropane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	594-20-7	R1
Diisopropyl ether	<b>0.00282</b>	mg/kg	0.00152	1	01/14/21 16:00	01/17/21 12:27	108-20-3	
Ethylbenzene	<b>0.0402</b>	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0379	1	01/14/21 16:00	01/17/21 12:27	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.152	1	01/14/21 16:00	01/17/21 12:27	78-93-3	
Methylene Chloride	ND	mg/kg	0.0379	1	01/14/21 16:00	01/17/21 12:27	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0379	1	01/14/21 16:00	01/17/21 12:27	108-10-1	
Methyl-tert-butyl ether	<b>0.00170</b>	mg/kg	0.00152	1	01/14/21 16:00	01/17/21 12:27	1634-04-4	
Naphthalene	<b>0.0367</b>	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	91-20-3	
n-Propylbenzene	<b>0.00819</b>	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	103-65-1	
Styrene	ND	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	127-18-4	
Toluene	<b>0.177</b>	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	79-00-5	
Trichloroethene	ND	mg/kg	0.00152	1	01/14/21 16:00	01/17/21 12:27	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0190	1	01/14/21 16:00	01/17/21 12:27	96-18-4	
1,2,4-Trimethylbenzene	<b>0.0872</b>	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	95-63-6	
1,2,3-Trimethylbenzene	<b>0.0428</b>	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	526-73-8	
1,3,5-Trimethylbenzene	<b>0.0290</b>	mg/kg	0.00758	1	01/14/21 16:00	01/17/21 12:27	108-67-8	
Vinyl chloride	ND	mg/kg	0.00379	1	01/14/21 16:00	01/17/21 12:27	75-01-4	
Xylene (Total)	<b>0.328</b>	mg/kg	0.00986	1	01/14/21 16:00	01/17/21 12:27	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	107	%	75.0-131	1	01/14/21 16:00	01/17/21 12:27	2037-26-5	
4-Bromofluorobenzene (S)	97.4	%	67.0-138	1	01/14/21 16:00	01/17/21 12:27	460-00-4	
1,2-Dichloroethane-d4 (S)	88.1	%	70.0-130	1	01/14/21 16:00	01/17/21 12:27	17060-07-0	
<b>Total Solids 2540 G-2011</b>		Analytical Method: SM 2540G    Preparation Method: SM 2540 G Pace National - Mt. Juliet						
Total Solids	<b>85.0</b>	%		1	01/19/21 12:03	01/19/21 12:15		

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-0-B**      **Lab ID: 92516902002**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	26.0	mg/kg	6.73	1	01/14/21 14:00	01/18/21 06:47		
Aliphatic (C09-C12)	ND	mg/kg	6.73	1	01/14/21 14:00	01/18/21 06:47		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	6.73	1	01/14/21 14:00	01/18/21 06:47	TPHC9C10A	
Total VPH	31.0	mg/kg	6.73	1	01/14/21 14:00	01/18/21 06:47	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	102	%	70.0-130	1	01/14/21 14:00	01/18/21 06:47	615-59-8FID	
2,5-Dibromotoluene (PID)	94.9	%	70.0-130	1	01/14/21 14:00	01/18/21 06:47	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
Acetone	ND	mg/kg	0.0650	1	01/14/21 14:00	01/17/21 12:46	67-64-1	
Acrylonitrile	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	107-13-1	C3,R1
Benzene	0.00706	mg/kg	0.00130	1	01/14/21 14:00	01/17/21 12:46	71-43-2	
Bromobenzene	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	75-27-4	
Bromoform	ND	mg/kg	0.0325	1	01/14/21 14:00	01/17/21 12:46	75-25-2	
Bromomethane	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	56-23-5	
Chlorobenzene	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	124-48-1	
Chloroethane	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	75-00-3	
Chloroform	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	67-66-3	
Chloromethane	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0325	1	01/14/21 14:00	01/17/21 12:46	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	106-93-4	
Dibromomethane	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-0-B**      **Lab ID: 92516902002**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	594-20-7	R1
Diisopropyl ether	<b>0.00348</b>	mg/kg	0.00130	1	01/14/21 14:00	01/17/21 12:46	108-20-3	
Ethylbenzene	<b>0.00899</b>	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0325	1	01/14/21 14:00	01/17/21 12:46	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.130	1	01/14/21 14:00	01/17/21 12:46	78-93-3	
Methylene Chloride	ND	mg/kg	0.0325	1	01/14/21 14:00	01/17/21 12:46	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0325	1	01/14/21 14:00	01/17/21 12:46	108-10-1	
Methyl-tert-butyl ether	<b>0.00253</b>	mg/kg	0.00130	1	01/14/21 14:00	01/17/21 12:46	1634-04-4	
Naphthalene	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	103-65-1	
Styrene	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	127-18-4	
Toluene	<b>0.0379</b>	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	79-00-5	
Trichloroethene	ND	mg/kg	0.00130	1	01/14/21 14:00	01/17/21 12:46	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0162	1	01/14/21 14:00	01/17/21 12:46	96-18-4	
1,2,4-Trimethylbenzene	<b>0.0321</b>	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	95-63-6	
1,2,3-Trimethylbenzene	<b>0.0125</b>	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	526-73-8	
1,3,5-Trimethylbenzene	<b>0.00916</b>	mg/kg	0.00650	1	01/14/21 14:00	01/17/21 12:46	108-67-8	
Vinyl chloride	ND	mg/kg	0.00325	1	01/14/21 14:00	01/17/21 12:46	75-01-4	
Xylene (Total)	<b>0.0902</b>	mg/kg	0.00845	1	01/14/21 14:00	01/17/21 12:46	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	99.0	%	75.0-131	1	01/14/21 14:00	01/17/21 12:46	2037-26-5	
4-Bromofluorobenzene (S)	108	%	67.0-138	1	01/14/21 14:00	01/17/21 12:46	460-00-4	
1,2-Dichloroethane-d4 (S)	95.8	%	70.0-130	1	01/14/21 14:00	01/17/21 12:46	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>89.4</b>	%		1	01/19/21 10:48	01/19/21 10:58		
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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-0-E**      **Lab ID: 92516902003**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	12.7	mg/kg	6.26	1	01/14/21 14:00	01/18/21 07:21		
Aliphatic (C09-C12)	ND	mg/kg	6.26	1	01/14/21 14:00	01/18/21 07:21		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	6.26	1	01/14/21 14:00	01/18/21 07:21	TPHC9C10A	
Total VPH	15.9	mg/kg	6.26	1	01/14/21 14:00	01/18/21 07:21	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	97.3	%	70.0-130	1	01/14/21 14:00	01/18/21 07:21	615-59-8FID	
2,5-Dibromotoluene (PID)	90.6	%	70.0-130	1	01/14/21 14:00	01/18/21 07:21	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0623	1	01/14/21 14:00	01/17/21 13:05	67-64-1	
Acrylonitrile	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	107-13-1	C3,R1
Benzene	0.00257	mg/kg	0.00125	1	01/14/21 14:00	01/17/21 13:05	71-43-2	
Bromobenzene	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	75-27-4	
Bromoform	ND	mg/kg	0.0312	1	01/14/21 14:00	01/17/21 13:05	75-25-2	
Bromomethane	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	56-23-5	
Chlorobenzene	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	124-48-1	
Chloroethane	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	75-00-3	
Chloroform	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	67-66-3	
Chloromethane	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0312	1	01/14/21 14:00	01/17/21 13:05	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	106-93-4	
Dibromomethane	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	10061-02-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448  
Pace Project No.: 92516902

**Sample: L2-0-E**      **Lab ID: 92516902003**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>		Analytical Method: EPA 8260D    Preparation Method: 5035A Pace National - Mt. Juliet						
2,2-Dichloropropane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	594-20-7	R1
Diisopropyl ether	ND	mg/kg	0.00125	1	01/14/21 14:00	01/17/21 13:05	108-20-3	
Ethylbenzene	<b>0.00379</b>	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0312	1	01/14/21 14:00	01/17/21 13:05	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	99-87-6	
2-Butanone (MEK)	<b>0.156</b>	mg/kg	0.125	1	01/14/21 14:00	01/17/21 13:05	78-93-3	
Methylene Chloride	ND	mg/kg	0.0312	1	01/14/21 14:00	01/17/21 13:05	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0312	1	01/14/21 14:00	01/17/21 13:05	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00125	1	01/14/21 14:00	01/17/21 13:05	1634-04-4	
Naphthalene	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	103-65-1	
Styrene	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	127-18-4	
Toluene	<b>0.0162</b>	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	79-00-5	
Trichloroethene	ND	mg/kg	0.00125	1	01/14/21 14:00	01/17/21 13:05	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0156	1	01/14/21 14:00	01/17/21 13:05	96-18-4	
1,2,4-Trimethylbenzene	<b>0.0104</b>	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00623	1	01/14/21 14:00	01/17/21 13:05	108-67-8	
Vinyl chloride	ND	mg/kg	0.00312	1	01/14/21 14:00	01/17/21 13:05	75-01-4	
Xylene (Total)	<b>0.0307</b>	mg/kg	0.00810	1	01/14/21 14:00	01/17/21 13:05	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	105	%	75.0-131	1	01/14/21 14:00	01/17/21 13:05	2037-26-5	
4-Bromofluorobenzene (S)	99.7	%	67.0-138	1	01/14/21 14:00	01/17/21 13:05	460-00-4	
1,2-Dichloroethane-d4 (S)	88.9	%	70.0-130	1	01/14/21 14:00	01/17/21 13:05	17060-07-0	
<b>Total Solids 2540 G-2011</b>		Analytical Method: SM 2540G    Preparation Method: SM 2540 G Pace National - Mt. Juliet						
Total Solids	<b>91.6</b>	%		1	01/19/21 10:48	01/19/21 10:58		

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-0-W**      **Lab ID: 92516902004**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	<b>36.6</b>	mg/kg	8.80	1	01/14/21 14:00	01/18/21 07:54		
Aliphatic (C09-C12)	ND	mg/kg	8.80	1	01/14/21 14:00	01/18/21 07:54		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	8.80	1	01/14/21 14:00	01/18/21 07:54	TPHC9C10A	
Total VPH	<b>40.3</b>	mg/kg	8.80	1	01/14/21 14:00	01/18/21 07:54	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	94.4	%	70.0-130	1	01/14/21 14:00	01/18/21 07:54	615-59-8FID	
2,5-Dibromotoluene (PID)	88.0	%	70.0-130	1	01/14/21 14:00	01/18/21 07:54	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0858	1	01/14/21 14:00	01/17/21 13:24	67-64-1	
Acrylonitrile	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	107-13-1	C3,R1
Benzene	<b>0.0161</b>	mg/kg	0.00172	1	01/14/21 14:00	01/17/21 13:24	71-43-2	
Bromobenzene	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	75-27-4	
Bromoform	ND	mg/kg	0.0429	1	01/14/21 14:00	01/17/21 13:24	75-25-2	
Bromomethane	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	56-23-5	
Chlorobenzene	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	124-48-1	
Chloroethane	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	75-00-3	
Chloroform	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	67-66-3	
Chloromethane	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0429	1	01/14/21 14:00	01/17/21 13:24	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	106-93-4	
Dibromomethane	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	10061-02-6	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-0-W**      **Lab ID: 92516902004**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	594-20-7	R1
Diisopropyl ether	<b>0.00633</b>	mg/kg	0.00172	1	01/14/21 14:00	01/17/21 13:24	108-20-3	
Ethylbenzene	<b>0.00905</b>	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0429	1	01/14/21 14:00	01/17/21 13:24	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	99-87-6	
2-Butanone (MEK)	<b>0.278</b>	mg/kg	0.172	1	01/14/21 14:00	01/17/21 13:24	78-93-3	
Methylene Chloride	ND	mg/kg	0.0429	1	01/14/21 14:00	01/17/21 13:24	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0429	1	01/14/21 14:00	01/17/21 13:24	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00172	1	01/14/21 14:00	01/17/21 13:24	1634-04-4	
Naphthalene	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	103-65-1	
Styrene	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	127-18-4	
Toluene	<b>0.0366</b>	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	79-00-5	
Trichloroethene	ND	mg/kg	0.00172	1	01/14/21 14:00	01/17/21 13:24	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0215	1	01/14/21 14:00	01/17/21 13:24	96-18-4	
1,2,4-Trimethylbenzene	<b>0.0192</b>	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00858	1	01/14/21 14:00	01/17/21 13:24	108-67-8	
Vinyl chloride	ND	mg/kg	0.00429	1	01/14/21 14:00	01/17/21 13:24	75-01-4	
Xylene (Total)	<b>0.0741</b>	mg/kg	0.0112	1	01/14/21 14:00	01/17/21 13:24	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	106	%	75.0-131	1	01/14/21 14:00	01/17/21 13:24	2037-26-5	
4-Bromofluorobenzene (S)	96.5	%	67.0-138	1	01/14/21 14:00	01/17/21 13:24	460-00-4	
1,2-Dichloroethane-d4 (S)	88.8	%	70.0-130	1	01/14/21 14:00	01/17/21 13:24	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>76.8</b>	%		1	01/19/21 10:48	01/19/21 10:58		
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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-25-B**      **Lab ID: 92516902005**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	23.1	mg/kg	7.81	1	01/14/21 14:00	01/18/21 08:27		
Aliphatic (C09-C12)	ND	mg/kg	7.81	1	01/14/21 14:00	01/18/21 08:27		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	7.81	1	01/14/21 14:00	01/18/21 08:27	TPHC9C10A	
Total VPH	26.7	mg/kg	7.81	1	01/14/21 14:00	01/18/21 08:27	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	91.3	%	70.0-130	1	01/14/21 14:00	01/18/21 08:27	615-59-8FID	
2,5-Dibromotoluene (PID)	84.8	%	70.0-130	1	01/14/21 14:00	01/18/21 08:27	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0778	1	01/14/21 14:00	01/17/21 13:43	67-64-1	
Acrylonitrile	ND	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	107-13-1	C3,R1
Benzene	0.00484	mg/kg	0.00156	1	01/14/21 14:00	01/17/21 13:43	71-43-2	
Bromobenzene	ND	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	75-27-4	
Bromoform	ND	mg/kg	0.0389	1	01/14/21 14:00	01/17/21 13:43	75-25-2	
Bromomethane	ND	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	74-83-9	
n-Butylbenzene	0.0501	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	56-23-5	
Chlorobenzene	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	124-48-1	
Chloroethane	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	75-00-3	
Chloroform	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	67-66-3	
Chloromethane	ND	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0389	1	01/14/21 14:00	01/17/21 13:43	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	106-93-4	
Dibromomethane	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	10061-02-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448  
Pace Project No.: 92516902

**Sample: L2-25-B**      **Lab ID: 92516902005**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	594-20-7	R1
Diisopropyl ether	ND	mg/kg	0.00156	1	01/14/21 14:00	01/17/21 13:43	108-20-3	
Ethylbenzene	<b>0.00538</b>	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0389	1	01/14/21 14:00	01/17/21 13:43	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	98-82-8	
p-Isopropyltoluene	<b>0.00909</b>	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.156	1	01/14/21 14:00	01/17/21 13:43	78-93-3	
Methylene Chloride	ND	mg/kg	0.0389	1	01/14/21 14:00	01/17/21 13:43	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0389	1	01/14/21 14:00	01/17/21 13:43	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00156	1	01/14/21 14:00	01/17/21 13:43	1634-04-4	
Naphthalene	<b>0.0437</b>	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	91-20-3	
n-Propylbenzene	<b>0.0202</b>	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	103-65-1	
Styrene	ND	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	127-18-4	
Toluene	<b>0.0224</b>	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	79-00-5	
Trichloroethene	ND	mg/kg	0.00156	1	01/14/21 14:00	01/17/21 13:43	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0194	1	01/14/21 14:00	01/17/21 13:43	96-18-4	
1,2,4-Trimethylbenzene	<b>0.122</b>	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	95-63-6	
1,2,3-Trimethylbenzene	<b>0.0464</b>	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	526-73-8	
1,3,5-Trimethylbenzene	<b>0.0569</b>	mg/kg	0.00778	1	01/14/21 14:00	01/17/21 13:43	108-67-8	
Vinyl chloride	ND	mg/kg	0.00389	1	01/14/21 14:00	01/17/21 13:43	75-01-4	
Xylene (Total)	<b>0.0537</b>	mg/kg	0.0101	1	01/14/21 14:00	01/17/21 13:43	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	105	%	75.0-131	1	01/14/21 14:00	01/17/21 13:43	2037-26-5	
4-Bromofluorobenzene (S)	96.4	%	67.0-138	1	01/14/21 14:00	01/17/21 13:43	460-00-4	
1,2-Dichloroethane-d4 (S)	90.3	%	70.0-130	1	01/14/21 14:00	01/17/21 13:43	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>84.1</b>	%		1	01/19/21 10:48	01/19/21 10:58		
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-25-E**      **Lab ID: 92516902006**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	<b>15.0</b>	mg/kg	6.47	1	01/14/21 14:00	01/18/21 09:00		
Aliphatic (C09-C12)	<b>16.3</b>	mg/kg	6.47	1	01/14/21 14:00	01/18/21 09:00		
Aromatic (C09-C10),Unadjusted	<b>10.3</b>	mg/kg	6.47	1	01/14/21 14:00	01/18/21 09:00	TPHC9C10A	
Total VPH	<b>41.7</b>	mg/kg	6.47	1	01/14/21 14:00	01/18/21 09:00	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	95.8	%	70.0-130	1	01/14/21 14:00	01/18/21 09:00	615-59-8FID	
2,5-Dibromotoluene (PID)	87.5	%	70.0-130	1	01/14/21 14:00	01/18/21 09:00	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.129	2	01/14/21 14:00	01/17/21 14:02	67-64-1	
Acrylonitrile	ND	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	107-13-1	C3,R1
Benzene	<b>0.00430</b>	mg/kg	0.00258	2	01/14/21 14:00	01/17/21 14:02	71-43-2	
Bromobenzene	ND	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	75-27-4	
Bromoform	ND	mg/kg	0.0646	2	01/14/21 14:00	01/17/21 14:02	75-25-2	
Bromomethane	ND	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	74-83-9	
n-Butylbenzene	<b>0.0686</b>	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	56-23-5	
Chlorobenzene	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	124-48-1	
Chloroethane	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	75-00-3	
Chloroform	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	67-66-3	
Chloromethane	ND	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0646	2	01/14/21 14:00	01/17/21 14:02	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	106-93-4	
Dibromomethane	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	10061-02-6	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-25-E**      **Lab ID: 92516902006**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	594-20-7	R1
Diisopropyl ether	ND	mg/kg	0.00258	2	01/14/21 14:00	01/17/21 14:02	108-20-3	
Ethylbenzene	<b>0.0129</b>	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0646	2	01/14/21 14:00	01/17/21 14:02	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.258	2	01/14/21 14:00	01/17/21 14:02	78-93-3	
Methylene Chloride	ND	mg/kg	0.0646	2	01/14/21 14:00	01/17/21 14:02	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0646	2	01/14/21 14:00	01/17/21 14:02	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00258	2	01/14/21 14:00	01/17/21 14:02	1634-04-4	
Naphthalene	<b>0.367</b>	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	103-65-1	
Styrene	ND	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	127-18-4	
Toluene	<b>0.0346</b>	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	79-00-5	
Trichloroethene	ND	mg/kg	0.00258	2	01/14/21 14:00	01/17/21 14:02	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0323	2	01/14/21 14:00	01/17/21 14:02	96-18-4	
1,2,4-Trimethylbenzene	<b>0.239</b>	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	95-63-6	
1,2,3-Trimethylbenzene	<b>0.158</b>	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	526-73-8	
1,3,5-Trimethylbenzene	<b>0.0526</b>	mg/kg	0.0129	2	01/14/21 14:00	01/17/21 14:02	108-67-8	
Vinyl chloride	ND	mg/kg	0.00646	2	01/14/21 14:00	01/17/21 14:02	75-01-4	
Xylene (Total)	<b>0.109</b>	mg/kg	0.0168	2	01/14/21 14:00	01/17/21 14:02	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	106	%	75.0-131	2	01/14/21 14:00	01/17/21 14:02	2037-26-5	
4-Bromofluorobenzene (S)	95.3	%	67.0-138	2	01/14/21 14:00	01/17/21 14:02	460-00-4	
1,2-Dichloroethane-d4 (S)	91.1	%	70.0-130	2	01/14/21 14:00	01/17/21 14:02	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>90.5</b>	%		1	01/19/21 10:48	01/19/21 10:58		
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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-25-W**      **Lab ID: 92516902007**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	mg/kg	8.97	1	01/14/21 14:00	01/18/21 09:33		
Aliphatic (C09-C12)	ND	mg/kg	8.97	1	01/14/21 14:00	01/18/21 09:33		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	8.97	1	01/14/21 14:00	01/18/21 09:33	TPHC9C10A	
Total VPH	ND	mg/kg	8.97	1	01/14/21 14:00	01/18/21 09:33	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	105	%	70.0-130	1	01/14/21 14:00	01/18/21 09:33	615-59-8FID	
2,5-Dibromotoluene (PID)	96.9	%	70.0-130	1	01/14/21 14:00	01/18/21 09:33	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0911	1	01/14/21 14:00	01/17/21 14:21	67-64-1	
Acrylonitrile	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	107-13-1	C3,R1
Benzene	<b>0.00791</b>	mg/kg	0.00182	1	01/14/21 14:00	01/17/21 14:21	71-43-2	
Bromobenzene	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	75-27-4	
Bromoform	ND	mg/kg	0.0456	1	01/14/21 14:00	01/17/21 14:21	75-25-2	
Bromomethane	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	56-23-5	
Chlorobenzene	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	124-48-1	
Chloroethane	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	75-00-3	
Chloroform	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	67-66-3	
Chloromethane	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0456	1	01/14/21 14:00	01/17/21 14:21	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	106-93-4	
Dibromomethane	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-25-W**      **Lab ID: 92516902007**      Collected: 01/14/21 14:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	594-20-7	R1
Diisopropyl ether	ND	mg/kg	0.00182	1	01/14/21 14:00	01/17/21 14:21	108-20-3	
Ethylbenzene	<b>0.0153</b>	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0456	1	01/14/21 14:00	01/17/21 14:21	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	99-87-6	
2-Butanone (MEK)	<b>2.19</b>	mg/kg	0.182	1	01/14/21 14:00	01/17/21 14:21	78-93-3	
Methylene Chloride	ND	mg/kg	0.0456	1	01/14/21 14:00	01/17/21 14:21	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0456	1	01/14/21 14:00	01/17/21 14:21	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00182	1	01/14/21 14:00	01/17/21 14:21	1634-04-4	
Naphthalene	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	103-65-1	
Styrene	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	127-18-4	
Toluene	<b>0.0512</b>	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	79-00-5	
Trichloroethene	ND	mg/kg	0.00182	1	01/14/21 14:00	01/17/21 14:21	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0228	1	01/14/21 14:00	01/17/21 14:21	96-18-4	
1,2,4-Trimethylbenzene	<b>0.0182</b>	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00911	1	01/14/21 14:00	01/17/21 14:21	108-67-8	
Vinyl chloride	ND	mg/kg	0.00456	1	01/14/21 14:00	01/17/21 14:21	75-01-4	
Xylene (Total)	<b>0.0857</b>	mg/kg	0.0118	1	01/14/21 14:00	01/17/21 14:21	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	98.8	%	75.0-131	1	01/14/21 14:00	01/17/21 14:21	2037-26-5	
4-Bromofluorobenzene (S)	107	%	67.0-138	1	01/14/21 14:00	01/17/21 14:21	460-00-4	
1,2-Dichloroethane-d4 (S)	93.6	%	70.0-130	1	01/14/21 14:00	01/17/21 14:21	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>78.8</b>	%		1	01/19/21 10:48	01/19/21 10:58		
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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-50-B**      **Lab ID: 92516902008**      Collected: 01/14/21 14:15      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	<b>2520</b>	mg/kg	147	20	01/14/21 14:15	01/18/21 11:46		
Aliphatic (C09-C12)	<b>2610</b>	mg/kg	147	20	01/14/21 14:15	01/18/21 11:46		
Aromatic (C09-C10),Unadjusted	<b>744</b>	mg/kg	147	20	01/14/21 14:15	01/18/21 11:46	TPHC9C10A	
Total VPH	<b>5880</b>	mg/kg	147	20	01/14/21 14:15	01/18/21 11:46	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	99.3	%	70.0-130	20	01/14/21 14:15	01/18/21 11:46	615-59-8FID	
2,5-Dibromotoluene (PID)	92.6	%	70.0-130	20	01/14/21 14:15	01/18/21 11:46	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	5.84	80	01/14/21 14:15	01/17/21 15:17	67-64-1	MH,R1
Acrylonitrile	ND	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	107-13-1	C3
Benzene	<b>27.7</b>	mg/kg	0.117	80	01/14/21 14:15	01/17/21 15:17	71-43-2	ML
Bromobenzene	ND	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	108-86-1	
Bromodichloromethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	75-27-4	
Bromoform	ND	mg/kg	2.92	80	01/14/21 14:15	01/17/21 15:17	75-25-2	
Bromomethane	ND	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	74-83-9	
n-Butylbenzene	<b>12.8</b>	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	104-51-8	
sec-Butylbenzene	<b>5.08</b>	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	56-23-5	R1
Chlorobenzene	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	108-90-7	
Dibromochloromethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	124-48-1	
Chloroethane	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	75-00-3	
Chloroform	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	67-66-3	
Chloromethane	ND	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	2.92	80	01/14/21 14:15	01/17/21 15:17	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	106-93-4	
Dibromomethane	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	75-71-8	R1
1,1-Dichloroethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	563-58-6	R1
1,3-Dichloropropane	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-50-B**      **Lab ID: 92516902008**      Collected: 01/14/21 14:15      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

2,2-Dichloropropane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	594-20-7	R1
Diisopropyl ether	1.74	mg/kg	0.117	80	01/14/21 14:15	01/17/21 15:17	108-20-3	
Ethylbenzene	236	mg/kg	3.65	1000	01/14/21 14:15	01/18/21 22:59	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	2.92	80	01/14/21 14:15	01/17/21 15:17	87-68-3	
Isopropylbenzene (Cumene)	19.3	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	98-82-8	
p-Isopropyltoluene	3.14	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	99-87-6	
2-Butanone (MEK)	ND	mg/kg	11.7	80	01/14/21 14:15	01/17/21 15:17	78-93-3	
Methylene Chloride	ND	mg/kg	2.92	80	01/14/21 14:15	01/17/21 15:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.92	80	01/14/21 14:15	01/17/21 15:17	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.117	80	01/14/21 14:15	01/17/21 15:17	1634-04-4	
Naphthalene	32.0	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	91-20-3	
n-Propylbenzene	60.9	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	103-65-1	P6
Styrene	ND	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	76-13-1	
Tetrachloroethene	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	127-18-4	R1
Toluene	476	mg/kg	7.30	1000	01/14/21 14:15	01/18/21 22:59	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	79-00-5	
Trichloroethene	ND	mg/kg	0.117	80	01/14/21 14:15	01/17/21 15:17	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	1.46	80	01/14/21 14:15	01/17/21 15:17	96-18-4	
1,2,4-Trimethylbenzene	317	mg/kg	7.30	1000	01/14/21 14:15	01/18/21 22:59	95-63-6	
1,2,3-Trimethylbenzene	86.3	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	526-73-8	P6
1,3,5-Trimethylbenzene	80.0	mg/kg	0.584	80	01/14/21 14:15	01/17/21 15:17	108-67-8	P6
Vinyl chloride	ND	mg/kg	0.292	80	01/14/21 14:15	01/17/21 15:17	75-01-4	R1
Xylene (Total)	1400	mg/kg	9.49	1000	01/14/21 14:15	01/18/21 22:59	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	104	%	75.0-131	80	01/14/21 14:15	01/17/21 15:17	2037-26-5	
Toluene-d8 (S)	97.8	%	75.0-131	1000	01/14/21 14:15	01/18/21 22:59	2037-26-5	
4-Bromofluorobenzene (S)	105	%	67.0-138	80	01/14/21 14:15	01/17/21 15:17	460-00-4	
4-Bromofluorobenzene (S)	105	%	67.0-138	1000	01/14/21 14:15	01/18/21 22:59	460-00-4	
1,2-Dichloroethane-d4 (S)	97.8	%	70.0-130	80	01/14/21 14:15	01/17/21 15:17	17060-07-0	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130	1000	01/14/21 14:15	01/18/21 22:59	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids	85.4	%		1	01/19/21 10:48	01/19/21 10:58		
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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-50-E**      **Lab ID: 92516902009**      Collected: 01/14/21 14:15      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	<b>2540</b>	mg/kg	744	100	01/14/21 14:15	01/19/21 22:24		
Aliphatic (C09-C12)	<b>4570</b>	mg/kg	744	100	01/14/21 14:15	01/19/21 22:24		
Aromatic (C09-C10),Unadjusted	<b>1860</b>	mg/kg	744	100	01/14/21 14:15	01/19/21 22:24	TPHC9C10A	
Total VPH	<b>8970</b>	mg/kg	744	100	01/14/21 14:15	01/19/21 22:24	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	97.1	%	70.0-130	100	01/14/21 14:15	01/19/21 22:24	615-59-8FID	
2,5-Dibromotoluene (PID)	89.4	%	70.0-130	100	01/14/21 14:15	01/19/21 22:24	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	15.1	200	01/14/21 14:15	01/17/21 15:36	67-64-1	
Acrylonitrile	ND	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	107-13-1	C3,R1
Benzene	<b>10.2</b>	mg/kg	0.302	200	01/14/21 14:15	01/17/21 15:36	71-43-2	
Bromobenzene	ND	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	108-86-1	
Bromodichloromethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	75-27-4	
Bromoform	ND	mg/kg	7.56	200	01/14/21 14:15	01/17/21 15:36	75-25-2	
Bromomethane	ND	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	74-83-9	
n-Butylbenzene	<b>14.4</b>	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	104-51-8	
sec-Butylbenzene	<b>6.27</b>	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	135-98-8	
tert-Butylbenzene	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	98-06-6	
Carbon tetrachloride	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	56-23-5	
Chlorobenzene	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	108-90-7	
Dibromochloromethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	124-48-1	
Chloroethane	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	75-00-3	
Chloroform	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	67-66-3	
Chloromethane	ND	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	95-49-8	
4-Chlorotoluene	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	7.56	200	01/14/21 14:15	01/17/21 15:36	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	106-93-4	
Dibromomethane	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	156-60-5	
1,2-Dichloropropane	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	563-58-6	
1,3-Dichloropropane	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	10061-02-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-50-E**      **Lab ID: 92516902009**      Collected: 01/14/21 14:15      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	594-20-7	R1
Diisopropyl ether	<b>0.464</b>	mg/kg	0.302	200	01/14/21 14:15	01/17/21 15:36	108-20-3	
Ethylbenzene	<b>198</b>	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	7.56	200	01/14/21 14:15	01/17/21 15:36	87-68-3	
Isopropylbenzene (Cumene)	<b>18.6</b>	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	98-82-8	
p-Isopropyltoluene	<b>3.78</b>	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	99-87-6	
2-Butanone (MEK)	ND	mg/kg	30.2	200	01/14/21 14:15	01/17/21 15:36	78-93-3	
Methylene Chloride	ND	mg/kg	7.56	200	01/14/21 14:15	01/17/21 15:36	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	7.56	200	01/14/21 14:15	01/17/21 15:36	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.302	200	01/14/21 14:15	01/17/21 15:36	1634-04-4	
Naphthalene	<b>39.4</b>	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	91-20-3	
n-Propylbenzene	<b>65.0</b>	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	103-65-1	
Styrene	ND	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	76-13-1	
Tetrachloroethene	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	127-18-4	
Toluene	<b>375</b>	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	79-00-5	
Trichloroethene	ND	mg/kg	0.302	200	01/14/21 14:15	01/17/21 15:36	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	3.78	200	01/14/21 14:15	01/17/21 15:36	96-18-4	
1,2,4-Trimethylbenzene	<b>352</b>	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	95-63-6	
1,2,3-Trimethylbenzene	<b>104</b>	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	526-73-8	
1,3,5-Trimethylbenzene	<b>93.7</b>	mg/kg	1.51	200	01/14/21 14:15	01/17/21 15:36	108-67-8	
Vinyl chloride	ND	mg/kg	0.756	200	01/14/21 14:15	01/17/21 15:36	75-01-4	
Xylene (Total)	<b>1060</b>	mg/kg	1.96	200	01/14/21 14:15	01/17/21 15:36	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	102	%	75.0-131	200	01/14/21 14:15	01/17/21 15:36	2037-26-5	
4-Bromofluorobenzene (S)	99.3	%	67.0-138	200	01/14/21 14:15	01/17/21 15:36	460-00-4	
1,2-Dichloroethane-d4 (S)	86.5	%	70.0-130	200	01/14/21 14:15	01/17/21 15:36	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>83.4</b>	%		1	01/19/21 10:48	01/19/21 10:58		
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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-50-W**      **Lab ID: 92516902010**      Collected: 01/14/21 14:15      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	<b>25.3</b>	mg/kg	15.5	2	01/14/21 14:15	01/19/21 22:57		
Aliphatic (C09-C12)	ND	mg/kg	15.5	2	01/14/21 14:15	01/19/21 22:57		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	15.5	2	01/14/21 14:15	01/19/21 22:57	TPHC9C10A	
Total VPH	<b>25.3</b>	mg/kg	15.5	2	01/14/21 14:15	01/19/21 22:57	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	90.9	%	70.0-130	2	01/14/21 14:15	01/19/21 22:57	615-59-8FID	
2,5-Dibromotoluene (PID)	83.4	%	70.0-130	2	01/14/21 14:15	01/19/21 22:57	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0784	1	01/14/21 14:15	01/17/21 14:40	67-64-1	
Acrylonitrile	ND	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	107-13-1	C3,R1
Benzene	<b>0.296</b>	mg/kg	0.00157	1	01/14/21 14:15	01/17/21 14:40	71-43-2	
Bromobenzene	ND	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	75-27-4	
Bromoform	ND	mg/kg	0.0392	1	01/14/21 14:15	01/17/21 14:40	75-25-2	
Bromomethane	ND	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	56-23-5	
Chlorobenzene	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	124-48-1	
Chloroethane	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	75-00-3	
Chloroform	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	67-66-3	
Chloromethane	ND	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0392	1	01/14/21 14:15	01/17/21 14:40	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	106-93-4	
Dibromomethane	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	10061-02-6	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-50-W**      **Lab ID: 92516902010**      Collected: 01/14/21 14:15      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	594-20-7	R1
Diisopropyl ether	<b>0.0262</b>	mg/kg	0.00157	1	01/14/21 14:15	01/17/21 14:40	108-20-3	
Ethylbenzene	<b>0.155</b>	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0392	1	01/14/21 14:15	01/17/21 14:40	87-68-3	
Isopropylbenzene (Cumene)	<b>0.00915</b>	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.157	1	01/14/21 14:15	01/17/21 14:40	78-93-3	
Methylene Chloride	ND	mg/kg	0.0392	1	01/14/21 14:15	01/17/21 14:40	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0392	1	01/14/21 14:15	01/17/21 14:40	108-10-1	
Methyl-tert-butyl ether	<b>0.0246</b>	mg/kg	0.00157	1	01/14/21 14:15	01/17/21 14:40	1634-04-4	
Naphthalene	<b>0.0326</b>	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	91-20-3	
n-Propylbenzene	<b>0.0246</b>	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	103-65-1	
Styrene	ND	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	127-18-4	
Toluene	<b>1.12</b>	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	79-00-5	
Trichloroethene	ND	mg/kg	0.00157	1	01/14/21 14:15	01/17/21 14:40	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0196	1	01/14/21 14:15	01/17/21 14:40	96-18-4	
1,2,4-Trimethylbenzene	<b>0.227</b>	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	95-63-6	
1,2,3-Trimethylbenzene	<b>0.0867</b>	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	526-73-8	
1,3,5-Trimethylbenzene	<b>0.0538</b>	mg/kg	0.00784	1	01/14/21 14:15	01/17/21 14:40	108-67-8	
Vinyl chloride	ND	mg/kg	0.00392	1	01/14/21 14:15	01/17/21 14:40	75-01-4	
Xylene (Total)	<b>0.956</b>	mg/kg	0.0102	1	01/14/21 14:15	01/17/21 14:40	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	101	%	75.0-131	1	01/14/21 14:15	01/17/21 14:40	2037-26-5	
4-Bromofluorobenzene (S)	110	%	67.0-138	1	01/14/21 14:15	01/17/21 14:40	460-00-4	
1,2-Dichloroethane-d4 (S)	95.1	%	70.0-130	1	01/14/21 14:15	01/17/21 14:40	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>85.5</b>	%		1	01/19/21 10:48	01/19/21 10:58		
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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-75-B**      **Lab ID: 92516902011**      Collected: 01/14/21 14:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	<b>4760</b>	mg/kg	159	20	01/14/21 14:30	01/18/21 12:53		
Aliphatic (C09-C12)	<b>13000</b>	mg/kg	159	20	01/14/21 14:30	01/18/21 12:53		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	795	100	01/14/21 14:30	01/19/21 23:30	TPHC9C10A	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	102	%	70.0-130	20	01/14/21 14:30	01/18/21 12:53	615-59-8FID	
2,5-Dibromotoluene (FID)	98.2	%	70.0-130	100	01/14/21 14:30	01/19/21 23:30	615-59-8FID	
2,5-Dibromotoluene (PID)	93.5	%	70.0-130	20	01/14/21 14:30	01/18/21 12:53	615-59-8PID	
2,5-Dibromotoluene (PID)	90.1	%	70.0-130	100	01/14/21 14:30	01/19/21 23:30	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	6.40	80	01/14/21 14:30	01/17/21 16:33	67-64-1	
Acrylonitrile	ND	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	107-13-1	C3,R1
Benzene	<b>36.3</b>	mg/kg	0.128	80	01/14/21 14:30	01/17/21 16:33	71-43-2	
Bromobenzene	ND	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	108-86-1	
Bromodichloromethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	75-27-4	
Bromoform	ND	mg/kg	3.20	80	01/14/21 14:30	01/17/21 16:33	75-25-2	
Bromomethane	ND	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	74-83-9	
n-Butylbenzene	<b>9.64</b>	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	104-51-8	
sec-Butylbenzene	<b>3.36</b>	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	56-23-5	
Chlorobenzene	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	108-90-7	
Dibromochloromethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	124-48-1	
Chloroethane	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	75-00-3	
Chloroform	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	67-66-3	
Chloromethane	ND	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	3.20	80	01/14/21 14:30	01/17/21 16:33	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	106-93-4	
Dibromomethane	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	10061-01-5	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-75-B**      **Lab ID: 92516902011**      Collected: 01/14/21 14:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

trans-1,3-Dichloropropene	ND	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	594-20-7	R1
Diisopropyl ether	<b>10.9</b>	mg/kg	0.128	80	01/14/21 14:30	01/17/21 16:33	108-20-3	
Ethylbenzene	<b>239</b>	mg/kg	4.00	1000	01/14/21 14:30	01/18/21 23:18	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	3.20	80	01/14/21 14:30	01/17/21 16:33	87-68-3	
Isopropylbenzene (Cumene)	<b>12.2</b>	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	98-82-8	
p-Isopropyltoluene	<b>1.89</b>	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	99-87-6	
2-Butanone (MEK)	ND	mg/kg	12.8	80	01/14/21 14:30	01/17/21 16:33	78-93-3	
Methylene Chloride	ND	mg/kg	3.20	80	01/14/21 14:30	01/17/21 16:33	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	3.20	80	01/14/21 14:30	01/17/21 16:33	108-10-1	
Methyl-tert-butyl ether	<b>0.850</b>	mg/kg	0.128	80	01/14/21 14:30	01/17/21 16:33	1634-04-4	
Naphthalene	<b>40.5</b>	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	91-20-3	
n-Propylbenzene	<b>41.9</b>	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	103-65-1	
Styrene	ND	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	76-13-1	
Tetrachloroethene	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	127-18-4	
Toluene	<b>503</b>	mg/kg	8.00	1000	01/14/21 14:30	01/18/21 23:18	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	79-00-5	
Trichloroethene	ND	mg/kg	0.128	80	01/14/21 14:30	01/17/21 16:33	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	1.60	80	01/14/21 14:30	01/17/21 16:33	96-18-4	
1,2,4-Trimethylbenzene	<b>247</b>	mg/kg	8.00	1000	01/14/21 14:30	01/18/21 23:18	95-63-6	
1,2,3-Trimethylbenzene	<b>60.3</b>	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	526-73-8	
1,3,5-Trimethylbenzene	<b>59.7</b>	mg/kg	0.640	80	01/14/21 14:30	01/17/21 16:33	108-67-8	
Vinyl chloride	ND	mg/kg	0.320	80	01/14/21 14:30	01/17/21 16:33	75-01-4	
Xylene (Total)	<b>1360</b>	mg/kg	10.4	1000	01/14/21 14:30	01/18/21 23:18	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	103	%	75.0-131	80	01/14/21 14:30	01/17/21 16:33	2037-26-5	
Toluene-d8 (S)	97.4	%	75.0-131	1000	01/14/21 14:30	01/18/21 23:18	2037-26-5	
4-Bromofluorobenzene (S)	102	%	67.0-138	80	01/14/21 14:30	01/17/21 16:33	460-00-4	
4-Bromofluorobenzene (S)	105	%	67.0-138	1000	01/14/21 14:30	01/18/21 23:18	460-00-4	
1,2-Dichloroethane-d4 (S)	97.7	%	70.0-130	80	01/14/21 14:30	01/17/21 16:33	17060-07-0	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130	1000	01/14/21 14:30	01/18/21 23:18	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>82.2</b>	%		1	01/19/21 10:48	01/19/21 10:58		
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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-75-E**      **Lab ID: 92516902012**      Collected: 01/14/21 14:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	<b>74.5</b>	mg/kg	9.68	1	01/14/21 14:30	01/18/21 10:40		
Aliphatic (C09-C12)	<b>134</b>	mg/kg	9.68	1	01/14/21 14:30	01/18/21 10:40		
Aromatic (C09-C10),Unadjusted	<b>50.0</b>	mg/kg	9.68	1	01/14/21 14:30	01/18/21 10:40	TPHC9C10A	
Total VPH	<b>258</b>	mg/kg	9.68	1	01/14/21 14:30	01/18/21 10:40	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	103	%	70.0-130	1	01/14/21 14:30	01/18/21 10:40	615-59-8FID	
2,5-Dibromotoluene (PID)	94.4	%	70.0-130	1	01/14/21 14:30	01/18/21 10:40	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0950	1	01/14/21 14:30	01/17/21 14:58	67-64-1	
Acrylonitrile	ND	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	107-13-1	C3,R1
Benzene	<b>0.0804</b>	mg/kg	0.00190	1	01/14/21 14:30	01/17/21 14:58	71-43-2	
Bromobenzene	ND	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	75-27-4	
Bromoform	ND	mg/kg	0.0475	1	01/14/21 14:30	01/17/21 14:58	75-25-2	
Bromomethane	ND	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	56-23-5	
Chlorobenzene	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	124-48-1	
Chloroethane	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	75-00-3	
Chloroform	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	67-66-3	
Chloromethane	ND	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0475	1	01/14/21 14:30	01/17/21 14:58	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	106-93-4	
Dibromomethane	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-75-E**      **Lab ID: 92516902012**      Collected: 01/14/21 14:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	594-20-7	R1
Diisopropyl ether	<b>0.0448</b>	mg/kg	0.00190	1	01/14/21 14:30	01/17/21 14:58	108-20-3	
Ethylbenzene	<b>0.262</b>	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0475	1	01/14/21 14:30	01/17/21 14:58	87-68-3	
Isopropylbenzene (Cumene)	<b>0.0142</b>	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	99-87-6	
2-Butanone (MEK)	<b>11.1</b>	mg/kg	0.190	1	01/14/21 14:30	01/17/21 14:58	78-93-3	
Methylene Chloride	ND	mg/kg	0.0475	1	01/14/21 14:30	01/17/21 14:58	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0475	1	01/14/21 14:30	01/17/21 14:58	108-10-1	
Methyl-tert-butyl ether	<b>0.00994</b>	mg/kg	0.00190	1	01/14/21 14:30	01/17/21 14:58	1634-04-4	
Naphthalene	<b>0.0874</b>	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	91-20-3	
n-Propylbenzene	<b>0.0515</b>	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	103-65-1	
Styrene	ND	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	127-18-4	
Toluene	<b>0.827</b>	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	79-00-5	
Trichloroethene	ND	mg/kg	0.00190	1	01/14/21 14:30	01/17/21 14:58	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0238	1	01/14/21 14:30	01/17/21 14:58	96-18-4	
1,2,4-Trimethylbenzene	<b>0.298</b>	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	95-63-6	
1,2,3-Trimethylbenzene	<b>0.0863</b>	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	526-73-8	
1,3,5-Trimethylbenzene	<b>0.0827</b>	mg/kg	0.00950	1	01/14/21 14:30	01/17/21 14:58	108-67-8	
Vinyl chloride	ND	mg/kg	0.00475	1	01/14/21 14:30	01/17/21 14:58	75-01-4	
Xylene (Total)	<b>1.59</b>	mg/kg	0.0124	1	01/14/21 14:30	01/17/21 14:58	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	101	%	75.0-131	1	01/14/21 14:30	01/17/21 14:58	2037-26-5	
4-Bromofluorobenzene (S)	105	%	67.0-138	1	01/14/21 14:30	01/17/21 14:58	460-00-4	
1,2-Dichloroethane-d4 (S)	85.9	%	70.0-130	1	01/14/21 14:30	01/17/21 14:58	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>73.9</b>	%		1	01/19/21 10:26	01/19/21 10:42		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-75-W**      **Lab ID: 92516902013**      Collected: 01/14/21 14:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	<b>980</b>	mg/kg	340	50	01/14/21 14:30	01/19/21 04:31		
Aliphatic (C09-C12)	<b>1880</b>	mg/kg	340	50	01/14/21 14:30	01/19/21 04:31		
Aromatic (C09-C10),Unadjusted	<b>773</b>	mg/kg	340	50	01/14/21 14:30	01/19/21 04:31	TPHC9C10A	
Total VPH	<b>3630</b>	mg/kg	340	50	01/14/21 14:30	01/19/21 04:31	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	99.6	%	70.0-130	50	01/14/21 14:30	01/19/21 04:31	615-59-8FID	
2,5-Dibromotoluene (PID)	91.2	%	70.0-130	50	01/14/21 14:30	01/19/21 04:31	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
Acetone	ND	mg/kg	1.35	20	01/14/21 14:30	01/17/21 16:52	67-64-1	
Acrylonitrile	ND	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	107-13-1	C3,R1
Benzene	<b>3.65</b>	mg/kg	0.0270	20	01/14/21 14:30	01/17/21 16:52	71-43-2	
Bromobenzene	ND	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	108-86-1	
Bromodichloromethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	75-27-4	
Bromoform	ND	mg/kg	0.676	20	01/14/21 14:30	01/17/21 16:52	75-25-2	
Bromomethane	ND	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	74-83-9	
n-Butylbenzene	<b>13.8</b>	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	104-51-8	
sec-Butylbenzene	<b>4.64</b>	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	56-23-5	
Chlorobenzene	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	108-90-7	
Dibromochloromethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	124-48-1	
Chloroethane	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	75-00-3	
Chloroform	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	67-66-3	
Chloromethane	ND	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.676	20	01/14/21 14:30	01/17/21 16:52	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	106-93-4	
Dibromomethane	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	10061-02-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-75-W**      **Lab ID: 92516902013**      Collected: 01/14/21 14:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

2,2-Dichloropropane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	594-20-7	R1
Diisopropyl ether	<b>0.343</b>	mg/kg	0.0270	20	01/14/21 14:30	01/17/21 16:52	108-20-3	
Ethylbenzene	<b>110</b>	mg/kg	1.35	400	01/14/21 14:30	01/18/21 23:37	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.676	20	01/14/21 14:30	01/17/21 16:52	87-68-3	
Isopropylbenzene (Cumene)	<b>13.4</b>	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	98-82-8	
p-Isopropyltoluene	<b>3.04</b>	mg/kg	0.135	20	01/14/21 14:30	01/17/21 16:52	99-87-6	
2-Butanone (MEK)	ND	mg/kg	2.70	20	01/14/21 14:30	01/17/21 16:52	78-93-3	
Methylene Chloride	ND	mg/kg	0.676	20	01/14/21 14:30	01/17/21 16:52	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.676	20	01/14/21 14:30	01/17/21 16:52	108-10-1	
Methyl-tert-butyl ether	<b>0.0407</b>	mg/kg	0.0270	20	01/14/21 14:30	01/17/21 16:52	1634-04-4	
Naphthalene	<b>27.4</b>	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	91-20-3	
n-Propylbenzene	<b>34.1</b>	mg/kg	2.70	400	01/14/21 14:30	01/18/21 23:37	103-65-1	
Styrene	ND	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	76-13-1	
Tetrachloroethene	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	127-18-4	
Toluene	<b>92.8</b>	mg/kg	2.70	400	01/14/21 14:30	01/18/21 23:37	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	79-00-5	
Trichloroethene	ND	mg/kg	0.0270	20	01/14/21 14:30	01/17/21 16:52	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.338	20	01/14/21 14:30	01/17/21 16:52	96-18-4	
1,2,4-Trimethylbenzene	<b>218</b>	mg/kg	2.70	400	01/14/21 14:30	01/18/21 23:37	95-63-6	
1,2,3-Trimethylbenzene	<b>60.7</b>	mg/kg	2.70	400	01/14/21 14:30	01/18/21 23:37	526-73-8	
1,3,5-Trimethylbenzene	<b>56.8</b>	mg/kg	2.70	400	01/14/21 14:30	01/18/21 23:37	108-67-8	
Vinyl chloride	ND	mg/kg	0.0676	20	01/14/21 14:30	01/17/21 16:52	75-01-4	
Xylene (Total)	<b>696</b>	mg/kg	3.51	400	01/14/21 14:30	01/18/21 23:37	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	100	%	75.0-131	20	01/14/21 14:30	01/17/21 16:52	2037-26-5	
Toluene-d8 (S)	96.1	%	75.0-131	400	01/14/21 14:30	01/18/21 23:37	2037-26-5	
4-Bromofluorobenzene (S)	98.9	%	67.0-138	20	01/14/21 14:30	01/17/21 16:52	460-00-4	
4-Bromofluorobenzene (S)	105	%	67.0-138	400	01/14/21 14:30	01/18/21 23:37	460-00-4	
1,2-Dichloroethane-d4 (S)	96.1	%	70.0-130	20	01/14/21 14:30	01/17/21 16:52	17060-07-0	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130	400	01/14/21 14:30	01/18/21 23:37	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>89.6</b>	%		1	01/19/21 10:26	01/19/21 10:42		
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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-100-B**      **Lab ID: 92516902014**      Collected: 01/14/21 14:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	<b>2530</b>	mg/kg	307	40	01/14/21 14:45	01/20/21 00:03		
Aliphatic (C09-C12)	<b>1750</b>	mg/kg	307	40	01/14/21 14:45	01/20/21 00:03		
Aromatic (C09-C10),Unadjusted	<b>600</b>	mg/kg	307	40	01/14/21 14:45	01/20/21 00:03	TPHC9C10A	
Total VPH	<b>4880</b>	mg/kg	307	40	01/14/21 14:45	01/20/21 00:03	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	94.3	%	70.0-130	40	01/14/21 14:45	01/20/21 00:03	615-59-8FID	
2,5-Dibromotoluene (PID)	86.7	%	70.0-130	40	01/14/21 14:45	01/20/21 00:03	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	1.52	20	01/14/21 14:45	01/17/21 17:11	67-64-1	
Acrylonitrile	ND	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	107-13-1	C3,R1
Benzene	<b>24.4</b>	mg/kg	0.0304	20	01/14/21 14:45	01/17/21 17:11	71-43-2	
Bromobenzene	ND	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	108-86-1	
Bromodichloromethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	75-27-4	
Bromoform	ND	mg/kg	0.759	20	01/14/21 14:45	01/17/21 17:11	75-25-2	
Bromomethane	ND	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	74-83-9	
n-Butylbenzene	<b>9.96</b>	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	104-51-8	
sec-Butylbenzene	<b>2.87</b>	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	56-23-5	
Chlorobenzene	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	108-90-7	
Dibromochloromethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	124-48-1	
Chloroethane	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	75-00-3	
Chloroform	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	67-66-3	
Chloromethane	ND	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.759	20	01/14/21 14:45	01/17/21 17:11	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	106-93-4	
Dibromomethane	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-100-B**      **Lab ID: 92516902014**      Collected: 01/14/21 14:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

2,2-Dichloropropane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	594-20-7	R1
Diisopropyl ether	<b>7.59</b>	mg/kg	0.0304	20	01/14/21 14:45	01/17/21 17:11	108-20-3	
Ethylbenzene	<b>152</b>	mg/kg	1.52	400	01/14/21 14:45	01/18/21 23:56	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.759	20	01/14/21 14:45	01/17/21 17:11	87-68-3	
Isopropylbenzene (Cumene)	<b>9.02</b>	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	98-82-8	
p-Isopropyltoluene	<b>1.65</b>	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	99-87-6	
2-Butanone (MEK)	ND	mg/kg	3.04	20	01/14/21 14:45	01/17/21 17:11	78-93-3	
Methylene Chloride	ND	mg/kg	0.759	20	01/14/21 14:45	01/17/21 17:11	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.759	20	01/14/21 14:45	01/17/21 17:11	108-10-1	
Methyl-tert-butyl ether	<b>0.554</b>	mg/kg	0.0304	20	01/14/21 14:45	01/17/21 17:11	1634-04-4	
Naphthalene	<b>29.1</b>	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	91-20-3	
n-Propylbenzene	<b>29.9</b>	mg/kg	0.152	20	01/14/21 14:45	01/17/21 17:11	103-65-1	
Styrene	ND	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	76-13-1	
Tetrachloroethene	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	127-18-4	
Toluene	<b>337</b>	mg/kg	3.04	400	01/14/21 14:45	01/18/21 23:56	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	79-00-5	
Trichloroethene	ND	mg/kg	0.0304	20	01/14/21 14:45	01/17/21 17:11	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.379	20	01/14/21 14:45	01/17/21 17:11	96-18-4	
1,2,4-Trimethylbenzene	<b>172</b>	mg/kg	3.04	400	01/14/21 14:45	01/18/21 23:56	95-63-6	
1,2,3-Trimethylbenzene	<b>42.6</b>	mg/kg	3.04	400	01/14/21 14:45	01/18/21 23:56	526-73-8	
1,3,5-Trimethylbenzene	<b>47.5</b>	mg/kg	3.04	400	01/14/21 14:45	01/18/21 23:56	108-67-8	
Vinyl chloride	ND	mg/kg	0.0759	20	01/14/21 14:45	01/17/21 17:11	75-01-4	
Xylene (Total)	<b>865</b>	mg/kg	3.95	400	01/14/21 14:45	01/18/21 23:56	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	91.6	%	75.0-131	20	01/14/21 14:45	01/17/21 17:11	2037-26-5	
Toluene-d8 (S)	104	%	75.0-131	400	01/14/21 14:45	01/18/21 23:56	2037-26-5	
4-Bromofluorobenzene (S)	105	%	67.0-138	20	01/14/21 14:45	01/17/21 17:11	460-00-4	
4-Bromofluorobenzene (S)	108	%	67.0-138	400	01/14/21 14:45	01/18/21 23:56	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70.0-130	20	01/14/21 14:45	01/17/21 17:11	17060-07-0	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130	400	01/14/21 14:45	01/18/21 23:56	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>86.7</b>	%		1	01/19/21 10:26	01/19/21 10:42		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-100-E**      **Lab ID: 92516902015**      Collected: 01/14/21 14:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	26.3	mg/kg	8.42	1	01/14/21 14:45	01/18/21 11:13		
Aliphatic (C09-C12)	ND	mg/kg	8.42	1	01/14/21 14:45	01/18/21 11:13		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	8.42	1	01/14/21 14:45	01/18/21 11:13	TPHC9C10A	
Total VPH	30.5	mg/kg	8.42	1	01/14/21 14:45	01/18/21 11:13	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	94.9	%	70.0-130	1	01/14/21 14:45	01/18/21 11:13	615-59-8FID	
2,5-Dibromotoluene (PID)	87.8	%	70.0-130	1	01/14/21 14:45	01/18/21 11:13	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.342	4	01/14/21 14:45	01/19/21 00:15	67-64-1	
Acrylonitrile	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	107-13-1	
Benzene	0.0214	mg/kg	0.00684	4	01/14/21 14:45	01/19/21 00:15	71-43-2	B
Bromobenzene	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	108-86-1	
Bromodichloromethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	75-27-4	
Bromoform	ND	mg/kg	0.171	4	01/14/21 14:45	01/19/21 00:15	75-25-2	
Bromomethane	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	56-23-5	
Chlorobenzene	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	108-90-7	
Dibromochloromethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	124-48-1	
Chloroethane	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	75-00-3	
Chloroform	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	67-66-3	
Chloromethane	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.171	4	01/14/21 14:45	01/19/21 00:15	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	106-93-4	
Dibromomethane	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-100-E**      **Lab ID: 92516902015**      Collected: 01/14/21 14:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	594-20-7	
Diisopropyl ether	<b>0.131</b>	mg/kg	0.00684	4	01/14/21 14:45	01/19/21 00:15	108-20-3	
Ethylbenzene	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.171	4	01/14/21 14:45	01/19/21 00:15	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.684	4	01/14/21 14:45	01/19/21 00:15	78-93-3	
Methylene Chloride	ND	mg/kg	0.171	4	01/14/21 14:45	01/19/21 00:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.171	4	01/14/21 14:45	01/19/21 00:15	108-10-1	
Methyl-tert-butyl ether	<b>0.0197</b>	mg/kg	0.00684	4	01/14/21 14:45	01/19/21 00:15	1634-04-4	
Naphthalene	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	103-65-1	
Styrene	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	76-13-1	
Tetrachloroethene	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	127-18-4	
Toluene	<b>0.0973</b>	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	79-00-5	
Trichloroethene	ND	mg/kg	0.00684	4	01/14/21 14:45	01/19/21 00:15	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0855	4	01/14/21 14:45	01/19/21 00:15	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0342	4	01/14/21 14:45	01/19/21 00:15	108-67-8	
Vinyl chloride	ND	mg/kg	0.0171	4	01/14/21 14:45	01/19/21 00:15	75-01-4	
Xylene (Total)	<b>0.188</b>	mg/kg	0.0445	4	01/14/21 14:45	01/19/21 00:15	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	102	%	75.0-131	4	01/14/21 14:45	01/19/21 00:15	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67.0-138	4	01/14/21 14:45	01/19/21 00:15	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130	4	01/14/21 14:45	01/19/21 00:15	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>82.7</b>	%		1	01/19/21 10:26	01/19/21 10:42		
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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-100-W**      **Lab ID: 92516902016**      Collected: 01/14/21 14:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	<b>3040</b>	mg/kg	346	40	01/14/21 14:45	01/18/21 14:33		
Aliphatic (C09-C12)	<b>3040</b>	mg/kg	346	40	01/14/21 14:45	01/18/21 14:33		
Aromatic (C09-C10),Unadjusted	<b>825</b>	mg/kg	346	40	01/14/21 14:45	01/18/21 14:33	TPHC9C10A	
Total VPH	<b>6910</b>	mg/kg	346	40	01/14/21 14:45	01/18/21 14:33	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	94.5	%	70.0-130	40	01/14/21 14:45	01/18/21 14:33	615-59-8FID	
2,5-Dibromotoluene (PID)	88.0	%	70.0-130	40	01/14/21 14:45	01/18/21 14:33	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	16.7	200	01/14/21 14:45	01/18/21 19:09	67-64-1	
Acrylonitrile	ND	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	107-13-1	
Benzene	<b>36.3</b>	mg/kg	0.335	200	01/14/21 14:45	01/18/21 19:09	71-43-2	
Bromobenzene	ND	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	108-86-1	
Bromodichloromethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	75-27-4	
Bromoform	ND	mg/kg	8.36	200	01/14/21 14:45	01/18/21 19:09	75-25-2	
Bromomethane	ND	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	74-83-9	
n-Butylbenzene	<b>4.37</b>	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	104-51-8	
sec-Butylbenzene	ND	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	135-98-8	
tert-Butylbenzene	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	98-06-6	
Carbon tetrachloride	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	56-23-5	
Chlorobenzene	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	108-90-7	
Dibromochloromethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	124-48-1	
Chloroethane	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	75-00-3	
Chloroform	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	67-66-3	
Chloromethane	ND	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	95-49-8	
4-Chlorotoluene	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	8.36	200	01/14/21 14:45	01/18/21 19:09	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	106-93-4	
Dibromomethane	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	156-60-5	
1,2-Dichloropropane	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	563-58-6	
1,3-Dichloropropane	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	10061-02-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-100-W**      **Lab ID: 92516902016**      Collected: 01/14/21 14:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

2,2-Dichloropropane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	594-20-7	
Diisopropyl ether	17.1	mg/kg	0.335	200	01/14/21 14:45	01/18/21 19:09	108-20-3	
Ethylbenzene	186	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	8.36	200	01/14/21 14:45	01/18/21 19:09	87-68-3	R1
Isopropylbenzene (Cumene)	8.38	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	98-82-8	
p-Isopropyltoluene	ND	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	99-87-6	
2-Butanone (MEK)	ND	mg/kg	33.5	200	01/14/21 14:45	01/18/21 19:09	78-93-3	
Methylene Chloride	ND	mg/kg	8.36	200	01/14/21 14:45	01/18/21 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	8.36	200	01/14/21 14:45	01/18/21 19:09	108-10-1	
Methyl-tert-butyl ether	1.61	mg/kg	0.335	200	01/14/21 14:45	01/18/21 19:09	1634-04-4	
Naphthalene	36.8	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	91-20-3	R1
n-Propylbenzene	25.1	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	103-65-1	
Styrene	ND	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	76-13-1	
Tetrachloroethene	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	127-18-4	
Toluene	488	mg/kg	8.36	1000	01/14/21 14:45	01/19/21 14:51	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	87-61-6	C4,R1
1,2,4-Trichlorobenzene	ND	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	79-00-5	
Trichloroethene	ND	mg/kg	0.335	200	01/14/21 14:45	01/18/21 19:09	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	4.18	200	01/14/21 14:45	01/18/21 19:09	96-18-4	
1,2,4-Trimethylbenzene	153	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	95-63-6	
1,2,3-Trimethylbenzene	43.5	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	526-73-8	
1,3,5-Trimethylbenzene	38.5	mg/kg	1.67	200	01/14/21 14:45	01/18/21 19:09	108-67-8	
Vinyl chloride	ND	mg/kg	0.836	200	01/14/21 14:45	01/18/21 19:09	75-01-4	
Xylene (Total)	1050	mg/kg	2.17	200	01/14/21 14:45	01/18/21 19:09	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	97.7	%	75.0-131	200	01/14/21 14:45	01/18/21 19:09	2037-26-5	
Toluene-d8 (S)	105	%	75.0-131	1000	01/14/21 14:45	01/19/21 14:51	2037-26-5	
4-Bromofluorobenzene (S)	105	%	67.0-138	200	01/14/21 14:45	01/18/21 19:09	460-00-4	
4-Bromofluorobenzene (S)	93.1	%	67.0-138	1000	01/14/21 14:45	01/19/21 14:51	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130	200	01/14/21 14:45	01/18/21 19:09	17060-07-0	
1,2-Dichloroethane-d4 (S)	94.7	%	70.0-130	1000	01/14/21 14:45	01/19/21 14:51	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	82.3	%		1	01/19/21 10:26	01/19/21 10:42		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-125-B**      **Lab ID: 92516902017**      Collected: 01/14/21 15:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	<b>5300</b>	mg/kg	203	20	01/14/21 15:00	01/18/21 15:06		
Aliphatic (C09-C12)	<b>4610</b>	mg/kg	203	20	01/14/21 15:00	01/18/21 15:06		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	2030	200	01/14/21 15:00	01/19/21 05:04	TPHC9C10A	
Total VPH	<b>11600</b>	mg/kg	203	20	01/14/21 15:00	01/18/21 15:06	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	101	%	70.0-130	20	01/14/21 15:00	01/18/21 15:06	615-59-8FID	
2,5-Dibromotoluene (FID)	95.2	%	70.0-130	200	01/14/21 15:00	01/19/21 05:04	615-59-8FID	
2,5-Dibromotoluene (PID)	93.0	%	70.0-130	20	01/14/21 15:00	01/18/21 15:06	615-59-8PID	
2,5-Dibromotoluene (PID)	87.0	%	70.0-130	200	01/14/21 15:00	01/19/21 05:04	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
Acetone	ND	mg/kg	7.91	80	01/14/21 15:00	01/19/21 04:41	67-64-1	
Acrylonitrile	ND	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	107-13-1	
Benzene	<b>62.3</b>	mg/kg	0.158	80	01/14/21 15:00	01/19/21 04:41	71-43-2	
Bromobenzene	ND	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	108-86-1	
Bromodichloromethane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	75-27-4	
Bromoform	ND	mg/kg	3.96	80	01/14/21 15:00	01/19/21 04:41	75-25-2	
Bromomethane	ND	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	74-83-9	
n-Butylbenzene	<b>5.58</b>	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	104-51-8	
sec-Butylbenzene	<b>2.41</b>	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	56-23-5	
Chlorobenzene	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	108-90-7	
Dibromochloromethane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	124-48-1	
Chloroethane	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	75-00-3	
Chloroform	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	67-66-3	
Chloromethane	ND	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	3.96	80	01/14/21 15:00	01/19/21 04:41	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	106-93-4	
Dibromomethane	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	142-28-9	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-125-B**      **Lab ID: 92516902017**      Collected: 01/14/21 15:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
cis-1,3-Dichloropropene	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	594-20-7	
Diisopropyl ether	<b>15.6</b>	mg/kg	0.158	80	01/14/21 15:00	01/19/21 04:41	108-20-3	
Ethylbenzene	<b>187</b>	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	3.96	80	01/14/21 15:00	01/19/21 04:41	87-68-3	
Isopropylbenzene (Cumene)	<b>10.2</b>	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	99-87-6	
2-Butanone (MEK)	ND	mg/kg	15.8	80	01/14/21 15:00	01/19/21 04:41	78-93-3	
Methylene Chloride	ND	mg/kg	3.96	80	01/14/21 15:00	01/19/21 04:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	3.96	80	01/14/21 15:00	01/19/21 04:41	108-10-1	
Methyl-tert-butyl ether	<b>1.31</b>	mg/kg	0.158	80	01/14/21 15:00	01/19/21 04:41	1634-04-4	
Naphthalene	<b>38.0</b>	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	91-20-3	
n-Propylbenzene	<b>27.7</b>	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	103-65-1	
Styrene	ND	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	76-13-1	
Tetrachloroethene	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	127-18-4	
Toluene	<b>558</b>	mg/kg	7.91	800	01/14/21 15:00	01/20/21 00:04	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	71-55-6	
1,1,2-Trichloroethane	<b>2.41</b>	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	79-00-5	
Trichloroethene	ND	mg/kg	0.158	80	01/14/21 15:00	01/19/21 04:41	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	1.98	80	01/14/21 15:00	01/19/21 04:41	96-18-4	
1,2,4-Trimethylbenzene	<b>177</b>	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	95-63-6	
1,2,3-Trimethylbenzene	<b>53.8</b>	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	526-73-8	
1,3,5-Trimethylbenzene	<b>43.1</b>	mg/kg	0.791	80	01/14/21 15:00	01/19/21 04:41	108-67-8	
Vinyl chloride	ND	mg/kg	0.396	80	01/14/21 15:00	01/19/21 04:41	75-01-4	
Xylene (Total)	<b>957</b>	mg/kg	10.3	800	01/14/21 15:00	01/20/21 00:04	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	98.6	%	75.0-131	80	01/14/21 15:00	01/19/21 04:41	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131	800	01/14/21 15:00	01/20/21 00:04	2037-26-5	
4-Bromofluorobenzene (S)	108	%	67.0-138	80	01/14/21 15:00	01/19/21 04:41	460-00-4	
4-Bromofluorobenzene (S)	106	%	67.0-138	800	01/14/21 15:00	01/20/21 00:04	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130	80	01/14/21 15:00	01/19/21 04:41	17060-07-0	
1,2-Dichloroethane-d4 (S)	102	%	70.0-130	800	01/14/21 15:00	01/20/21 00:04	17060-07-0	
<b>Total Solids 2540 G-2011</b>								
Analytical Method: SM 2540G    Preparation Method: SM 2540 G								
Pace National - Mt. Juliet								
Total Solids	<b>75.9</b>	%		1	01/19/21 10:26	01/19/21 10:42		

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-125-E**      **Lab ID: 92516902018**      Collected: 01/14/21 15:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	mg/kg	8.48	1	01/14/21 15:00	01/20/21 00:36		
Aliphatic (C09-C12)	ND	mg/kg	8.48	1	01/14/21 15:00	01/20/21 00:36		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	8.48	1	01/14/21 15:00	01/20/21 00:36	TPHC9C10A	
Total VPH	ND	mg/kg	8.48	1	01/14/21 15:00	01/20/21 00:36	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	93.3	%	70.0-130	1	01/14/21 15:00	01/20/21 00:36	615-59-8FID	
2,5-Dibromotoluene (PID)	85.3	%	70.0-130	1	01/14/21 15:00	01/20/21 00:36	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
Acetone	ND	mg/kg	0.0848	1	01/14/21 15:00	01/18/21 13:10	67-64-1	
Acrylonitrile	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	107-13-1	
Benzene	ND	mg/kg	0.00170	1	01/14/21 15:00	01/18/21 13:10	71-43-2	
Bromobenzene	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	75-27-4	
Bromoform	ND	mg/kg	0.0424	1	01/14/21 15:00	01/18/21 13:10	75-25-2	
Bromomethane	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	56-23-5	
Chlorobenzene	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	124-48-1	
Chloroethane	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	75-00-3	
Chloroform	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	67-66-3	
Chloromethane	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0424	1	01/14/21 15:00	01/18/21 13:10	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	106-93-4	
Dibromomethane	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	10061-02-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

Sample: L2-125-E Lab ID: 92516902018 Collected: 01/14/21 15:00 Received: 01/15/21 12:20 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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00170	1	01/14/21 15:00	01/18/21 13:10	108-20-3	
Ethylbenzene	<b>0.00942</b>	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0424	1	01/14/21 15:00	01/18/21 13:10	87-68-3	R1
Isopropylbenzene (Cumene)	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.170	1	01/14/21 15:00	01/18/21 13:10	78-93-3	
Methylene Chloride	ND	mg/kg	0.0424	1	01/14/21 15:00	01/18/21 13:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0424	1	01/14/21 15:00	01/18/21 13:10	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00170	1	01/14/21 15:00	01/18/21 13:10	1634-04-4	
Naphthalene	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	91-20-3	R1
n-Propylbenzene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	103-65-1	
Styrene	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	127-18-4	
Toluene	<b>0.0142</b>	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	87-61-6	C4,R1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	79-00-5	
Trichloroethene	ND	mg/kg	0.00170	1	01/14/21 15:00	01/18/21 13:10	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0212	1	01/14/21 15:00	01/18/21 13:10	96-18-4	
1,2,4-Trimethylbenzene	<b>0.0200</b>	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00848	1	01/14/21 15:00	01/18/21 13:10	108-67-8	
Vinyl chloride	ND	mg/kg	0.00424	1	01/14/21 15:00	01/18/21 13:10	75-01-4	
Xylene (Total)	<b>0.0602</b>	mg/kg	0.0110	1	01/14/21 15:00	01/18/21 13:10	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	101	%	75.0-131	1	01/14/21 15:00	01/18/21 13:10	2037-26-5	
4-Bromofluorobenzene (S)	99.4	%	67.0-138	1	01/14/21 15:00	01/18/21 13:10	460-00-4	
1,2-Dichloroethane-d4 (S)	96.7	%	70.0-130	1	01/14/21 15:00	01/18/21 13:10	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>83.8</b>	%		1	01/19/21 10:26	01/19/21 10:42		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-125-W**      **Lab ID: 92516902019**      Collected: 01/14/21 15:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	<b>3380</b>	mg/kg	371	40	01/14/21 15:00	01/19/21 07:50		
Aliphatic (C09-C12)	<b>2060</b>	mg/kg	371	40	01/14/21 15:00	01/19/21 07:50		
Aromatic (C09-C10),Unadjusted	<b>542</b>	mg/kg	371	40	01/14/21 15:00	01/19/21 07:50	TPHC9C10A	
Total VPH	<b>5970</b>	mg/kg	371	40	01/14/21 15:00	01/19/21 07:50	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	103	%	70.0-130	40	01/14/21 15:00	01/19/21 07:50	615-59-8FID	
2,5-Dibromotoluene (PID)	94.2	%	70.0-130	40	01/14/21 15:00	01/19/21 07:50	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	19.3	200	01/14/21 15:00	01/18/21 19:28	67-64-1	MH
Acrylonitrile	ND	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	107-13-1	
Benzene	<b>55.5</b>	mg/kg	0.387	200	01/14/21 15:00	01/18/21 19:28	71-43-2	MH
Bromobenzene	ND	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	108-86-1	
Bromodichloromethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	75-27-4	
Bromoform	ND	mg/kg	9.67	200	01/14/21 15:00	01/18/21 19:28	75-25-2	
Bromomethane	ND	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	74-83-9	R1
n-Butylbenzene	ND	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	104-51-8	
sec-Butylbenzene	ND	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	135-98-8	R1
tert-Butylbenzene	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	98-06-6	R1
Carbon tetrachloride	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	56-23-5	R1
Chlorobenzene	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	108-90-7	R1
Dibromochloromethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	124-48-1	
Chloroethane	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	75-00-3	R1
Chloroform	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	67-66-3	R1
Chloromethane	ND	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	74-87-3	R1
2-Chlorotoluene	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	95-49-8	R1
4-Chlorotoluene	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	106-43-4	R1
1,2-Dibromo-3-chloropropane	ND	mg/kg	9.67	200	01/14/21 15:00	01/18/21 19:28	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	106-93-4	
Dibromomethane	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	75-71-8	R1
1,1-Dichloroethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	75-34-3	R1
1,2-Dichloroethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	75-35-4	R1
cis-1,2-Dichloroethene	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	156-59-2	R1
trans-1,2-Dichloroethene	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	156-60-5	R1
1,2-Dichloropropane	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	563-58-6	R1
1,3-Dichloropropane	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	10061-02-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-125-W**      **Lab ID: 92516902019**      Collected: 01/14/21 15:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>		Analytical Method: EPA 8260D    Preparation Method: 5035A Pace National - Mt. Juliet						
2,2-Dichloropropane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	594-20-7	R1
Diisopropyl ether	<b>31.9</b>	mg/kg	0.387	200	01/14/21 15:00	01/18/21 19:28	108-20-3	MH
Ethylbenzene	<b>103</b>	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	100-41-4	P6
Hexachloro-1,3-butadiene	ND	mg/kg	9.67	200	01/14/21 15:00	01/18/21 19:28	87-68-3	R1
Isopropylbenzene (Cumene)	<b>4.28</b>	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	98-82-8	R1
p-Isopropyltoluene	ND	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	99-87-6	R1
2-Butanone (MEK)	ND	mg/kg	38.7	200	01/14/21 15:00	01/18/21 19:28	78-93-3	
Methylene Chloride	ND	mg/kg	9.67	200	01/14/21 15:00	01/18/21 19:28	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	9.67	200	01/14/21 15:00	01/18/21 19:28	108-10-1	
Methyl-tert-butyl ether	<b>4.24</b>	mg/kg	0.387	200	01/14/21 15:00	01/18/21 19:28	1634-04-4	
Naphthalene	<b>24.2</b>	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	91-20-3	R1
n-Propylbenzene	<b>13.1</b>	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	103-65-1	
Styrene	ND	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	76-13-1	R1
Tetrachloroethene	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	127-18-4	R1
Toluene	<b>364</b>	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	108-88-3	P6
1,2,3-Trichlorobenzene	ND	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	87-61-6	C4,R1
1,2,4-Trichlorobenzene	ND	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	71-55-6	R1
1,1,2-Trichloroethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	79-00-5	
Trichloroethene	ND	mg/kg	0.387	200	01/14/21 15:00	01/18/21 19:28	79-01-6	R1
Trichlorofluoromethane	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	75-69-4	R1
1,2,3-Trichloropropane	ND	mg/kg	4.84	200	01/14/21 15:00	01/18/21 19:28	96-18-4	
1,2,4-Trimethylbenzene	<b>79.9</b>	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	95-63-6	MH
1,2,3-Trimethylbenzene	<b>22.2</b>	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	526-73-8	
1,3,5-Trimethylbenzene	<b>20.3</b>	mg/kg	1.93	200	01/14/21 15:00	01/18/21 19:28	108-67-8	
Vinyl chloride	ND	mg/kg	0.967	200	01/14/21 15:00	01/18/21 19:28	75-01-4	R1
Xylene (Total)	<b>602</b>	mg/kg	2.51	200	01/14/21 15:00	01/18/21 19:28	1330-20-7	P6
<b>Surrogates</b>								
Toluene-d8 (S)	99.6	%	75.0-131	200	01/14/21 15:00	01/18/21 19:28	2037-26-5	
4-Bromofluorobenzene (S)	102	%	67.0-138	200	01/14/21 15:00	01/18/21 19:28	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130	200	01/14/21 15:00	01/18/21 19:28	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>78.1</b>	%		1	01/19/21 10:26	01/19/21 10:42		
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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-150-B**      **Lab ID: 92516902020**      Collected: 01/14/21 15:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	<b>4030</b>	mg/kg	334	40	01/14/21 15:45	01/19/21 08:24		
Aliphatic (C09-C12)	<b>2560</b>	mg/kg	334	40	01/14/21 15:45	01/19/21 08:24		
Aromatic (C09-C10),Unadjusted	<b>759</b>	mg/kg	334	40	01/14/21 15:45	01/19/21 08:24	TPHC9C10A	
Total VPH	<b>7340</b>	mg/kg	334	40	01/14/21 15:45	01/19/21 08:24	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	96.7	%	70.0-130	40	01/14/21 15:45	01/19/21 08:24	615-59-8FID	
2,5-Dibromotoluene (PID)	89.2	%	70.0-130	40	01/14/21 15:45	01/19/21 08:24	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	16.6	200	01/14/21 15:45	01/19/21 05:00	67-64-1	
Acrylonitrile	ND	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	107-13-1	
Benzene	<b>57.8</b>	mg/kg	0.332	200	01/14/21 15:45	01/19/21 05:00	71-43-2	
Bromobenzene	ND	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	108-86-1	
Bromodichloromethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	75-27-4	
Bromoform	ND	mg/kg	8.31	200	01/14/21 15:45	01/19/21 05:00	75-25-2	
Bromomethane	ND	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	74-83-9	
n-Butylbenzene	<b>4.68</b>	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	104-51-8	
sec-Butylbenzene	ND	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	135-98-8	
tert-Butylbenzene	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	98-06-6	
Carbon tetrachloride	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	56-23-5	
Chlorobenzene	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	108-90-7	
Dibromochloromethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	124-48-1	
Chloroethane	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	75-00-3	
Chloroform	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	67-66-3	
Chloromethane	ND	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	95-49-8	
4-Chlorotoluene	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	8.31	200	01/14/21 15:45	01/19/21 05:00	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	106-93-4	
Dibromomethane	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	156-60-5	
1,2-Dichloropropane	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	563-58-6	
1,3-Dichloropropane	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	10061-02-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-150-B**      **Lab ID: 92516902020**      Collected: 01/14/21 15:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

2,2-Dichloropropane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	594-20-7	
Diisopropyl ether	<b>5.40</b>	mg/kg	0.332	200	01/14/21 15:45	01/19/21 05:00	108-20-3	
Ethylbenzene	<b>162</b>	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	8.31	200	01/14/21 15:45	01/19/21 05:00	87-68-3	
Isopropylbenzene (Cumene)	<b>8.99</b>	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	98-82-8	
p-Isopropyltoluene	ND	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	99-87-6	
2-Butanone (MEK)	ND	mg/kg	33.2	200	01/14/21 15:45	01/19/21 05:00	78-93-3	
Methylene Chloride	ND	mg/kg	8.31	200	01/14/21 15:45	01/19/21 05:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	8.31	200	01/14/21 15:45	01/19/21 05:00	108-10-1	
Methyl-tert-butyl ether	<b>1.09</b>	mg/kg	0.332	200	01/14/21 15:45	01/19/21 05:00	1634-04-4	
Naphthalene	<b>46.2</b>	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	91-20-3	
n-Propylbenzene	<b>24.3</b>	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	103-65-1	
Styrene	ND	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	76-13-1	
Tetrachloroethene	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	127-18-4	
Toluene	<b>339</b>	mg/kg	6.65	800	01/14/21 15:45	01/20/21 00:23	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	79-00-5	
Trichloroethene	ND	mg/kg	0.332	200	01/14/21 15:45	01/19/21 05:00	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	4.15	200	01/14/21 15:45	01/19/21 05:00	96-18-4	
1,2,4-Trimethylbenzene	<b>152</b>	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	95-63-6	
1,2,3-Trimethylbenzene	<b>47.8</b>	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	526-73-8	
1,3,5-Trimethylbenzene	<b>34.4</b>	mg/kg	1.66	200	01/14/21 15:45	01/19/21 05:00	108-67-8	
Vinyl chloride	ND	mg/kg	0.831	200	01/14/21 15:45	01/19/21 05:00	75-01-4	
Xylene (Total)	<b>890</b>	mg/kg	2.16	200	01/14/21 15:45	01/19/21 05:00	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	98.1	%	75.0-131	200	01/14/21 15:45	01/19/21 05:00	2037-26-5	
Toluene-d8 (S)	106	%	75.0-131	800	01/14/21 15:45	01/20/21 00:23	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67.0-138	200	01/14/21 15:45	01/19/21 05:00	460-00-4	
4-Bromofluorobenzene (S)	109	%	67.0-138	800	01/14/21 15:45	01/20/21 00:23	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130	200	01/14/21 15:45	01/19/21 05:00	17060-07-0	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130	800	01/14/21 15:45	01/20/21 00:23	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids	<b>83.1</b>	%		1	01/19/21 10:26	01/19/21 10:42		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-150-E**      **Lab ID: 92516902021**      Collected: 01/14/21 15:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	<b>2960</b>	mg/kg	92.5	10	01/14/21 15:45	01/19/21 08:57		
Aliphatic (C09-C12)	<b>3640</b>	mg/kg	92.5	10	01/14/21 15:45	01/19/21 08:57		
Aromatic (C09-C10),Unadjusted	<b>586</b>	mg/kg	370	40	01/14/21 15:45	01/20/21 01:09	TPHC9C10A	
Total VPH	<b>7190</b>	mg/kg	92.5	10	01/14/21 15:45	01/19/21 08:57	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	99.2	%	70.0-130	10	01/14/21 15:45	01/19/21 08:57	615-59-8FID	
2,5-Dibromotoluene (FID)	92.9	%	70.0-130	40	01/14/21 15:45	01/20/21 01:09	615-59-8FID	
2,5-Dibromotoluene (PID)	90.2	%	70.0-130	10	01/14/21 15:45	01/19/21 08:57	615-59-8PID	
2,5-Dibromotoluene (PID)	85.5	%	70.0-130	40	01/14/21 15:45	01/20/21 01:09	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	3.70	40	01/14/21 15:45	01/19/21 05:19	67-64-1	
Acrylonitrile	ND	mg/kg	0.925	40	01/14/21 15:45	01/19/21 05:19	107-13-1	
Benzene	<b>81.4</b>	mg/kg	0.0740	40	01/14/21 15:45	01/19/21 05:19	71-43-2	
Bromobenzene	ND	mg/kg	0.925	40	01/14/21 15:45	01/19/21 05:19	108-86-1	
Bromodichloromethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	75-27-4	
Bromoform	ND	mg/kg	1.85	40	01/14/21 15:45	01/19/21 05:19	75-25-2	
Bromomethane	ND	mg/kg	0.925	40	01/14/21 15:45	01/19/21 05:19	74-83-9	
n-Butylbenzene	<b>7.10</b>	mg/kg	0.925	40	01/14/21 15:45	01/19/21 05:19	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.925	40	01/14/21 15:45	01/19/21 05:19	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	56-23-5	
Chlorobenzene	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	108-90-7	
Dibromochloromethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	124-48-1	
Chloroethane	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	75-00-3	
Chloroform	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	67-66-3	
Chloromethane	ND	mg/kg	0.925	40	01/14/21 15:45	01/19/21 05:19	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.85	40	01/14/21 15:45	01/19/21 05:19	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	106-93-4	
Dibromomethane	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	142-28-9	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-150-E**      **Lab ID: 92516902021**      Collected: 01/14/21 15:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
cis-1,3-Dichloropropene	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	594-20-7	
Diisopropyl ether	17.1	mg/kg	0.0740	40	01/14/21 15:45	01/19/21 05:19	108-20-3	
Ethylbenzene	97.5	mg/kg	3.70	800	01/14/21 15:45	01/20/21 00:41	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	1.85	40	01/14/21 15:45	01/19/21 05:19	79-68-3	
Isopropylbenzene (Cumene)	12.4	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	98-82-8	
p-Isopropyltoluene	1.34	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	99-87-6	
2-Butanone (MEK)	ND	mg/kg	7.40	40	01/14/21 15:45	01/19/21 05:19	78-93-3	
Methylene Chloride	ND	mg/kg	1.85	40	01/14/21 15:45	01/19/21 05:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.85	40	01/14/21 15:45	01/19/21 05:19	108-10-1	
Methyl-tert-butyl ether	1.26	mg/kg	0.0740	40	01/14/21 15:45	01/19/21 05:19	1634-04-4	
Naphthalene	25.3	mg/kg	18.5	800	01/14/21 15:45	01/20/21 00:41	91-20-3	
n-Propylbenzene	42.5	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	103-65-1	
Styrene	ND	mg/kg	0.925	40	01/14/21 15:45	01/19/21 05:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	76-13-1	
Tetrachloroethene	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	127-18-4	
Toluene	325	mg/kg	7.40	800	01/14/21 15:45	01/20/21 00:41	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.925	40	01/14/21 15:45	01/19/21 05:19	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.925	40	01/14/21 15:45	01/19/21 05:19	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	79-00-5	
Trichloroethene	ND	mg/kg	0.0740	40	01/14/21 15:45	01/19/21 05:19	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.925	40	01/14/21 15:45	01/19/21 05:19	96-18-4	
1,2,4-Trimethylbenzene	74.7	mg/kg	7.40	800	01/14/21 15:45	01/20/21 00:41	95-63-6	
1,2,3-Trimethylbenzene	65.3	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	526-73-8	
1,3,5-Trimethylbenzene	59.9	mg/kg	0.370	40	01/14/21 15:45	01/19/21 05:19	108-67-8	
Vinyl chloride	ND	mg/kg	0.185	40	01/14/21 15:45	01/19/21 05:19	75-01-4	
Xylene (Total)	570	mg/kg	9.62	800	01/14/21 15:45	01/20/21 00:41	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	102	%	75.0-131	40	01/14/21 15:45	01/19/21 05:19	2037-26-5	
Toluene-d8 (S)	105	%	75.0-131	800	01/14/21 15:45	01/20/21 00:41	2037-26-5	
4-Bromofluorobenzene (S)	101	%	67.0-138	40	01/14/21 15:45	01/19/21 05:19	460-00-4	
4-Bromofluorobenzene (S)	108	%	67.0-138	800	01/14/21 15:45	01/20/21 00:41	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130	40	01/14/21 15:45	01/19/21 05:19	17060-07-0	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130	800	01/14/21 15:45	01/20/21 00:41	17060-07-0	
<b>Total Solids 2540 G-2011</b>								
Analytical Method: SM 2540G    Preparation Method: SM 2540 G								
Pace National - Mt. Juliet								
Total Solids	78.3	%		1	01/19/21 10:26	01/19/21 10:42		

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-150-W**      **Lab ID: 92516902022**      Collected: 01/14/21 15:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	<b>2990</b>	mg/kg	206	20	01/14/21 15:45	01/19/21 09:30		
Aliphatic (C09-C12)	<b>2430</b>	mg/kg	206	20	01/14/21 15:45	01/19/21 09:30		
Aromatic (C09-C10),Unadjusted	<b>646</b>	mg/kg	206	20	01/14/21 15:45	01/19/21 09:30	TPHC9C10A	
Total VPH	<b>6070</b>	mg/kg	206	20	01/14/21 15:45	01/19/21 09:30	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	99.7	%	70.0-130	20	01/14/21 15:45	01/19/21 09:30	615-59-8FID	
2,5-Dibromotoluene (PID)	90.9	%	70.0-130	20	01/14/21 15:45	01/19/21 09:30	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D    Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	8.25	80	01/14/21 15:45	01/19/21 05:38	67-64-1	
Acrylonitrile	ND	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	107-13-1	
Benzene	<b>70.5</b>	mg/kg	0.165	80	01/14/21 15:45	01/19/21 05:38	71-43-2	
Bromobenzene	ND	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	108-86-1	
Bromodichloromethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	75-27-4	
Bromoform	ND	mg/kg	4.13	80	01/14/21 15:45	01/19/21 05:38	75-25-2	
Bromomethane	ND	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	74-83-9	
n-Butylbenzene	<b>5.28</b>	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	104-51-8	
sec-Butylbenzene	<b>2.54</b>	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	56-23-5	
Chlorobenzene	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	108-90-7	
Dibromochloromethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	124-48-1	
Chloroethane	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	75-00-3	
Chloroform	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	67-66-3	
Chloromethane	ND	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	4.13	80	01/14/21 15:45	01/19/21 05:38	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	106-93-4	
Dibromomethane	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	10061-02-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448  
Pace Project No.: 92516902

**Sample: L2-150-W**      **Lab ID: 92516902022**      Collected: 01/14/21 15:45      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

2,2-Dichloropropane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	594-20-7	
Diisopropyl ether	2.17	mg/kg	0.165	80	01/14/21 15:45	01/19/21 05:38	108-20-3	
Ethylbenzene	51.2	mg/kg	2.06	400	01/14/21 15:45	01/20/21 01:00	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	4.13	80	01/14/21 15:45	01/19/21 05:38	87-68-3	
Isopropylbenzene (Cumene)	12.3	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	98-82-8	
p-Isopropyltoluene	1.46	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	99-87-6	
2-Butanone (MEK)	ND	mg/kg	16.5	80	01/14/21 15:45	01/19/21 05:38	78-93-3	
Methylene Chloride	ND	mg/kg	4.13	80	01/14/21 15:45	01/19/21 05:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	4.13	80	01/14/21 15:45	01/19/21 05:38	108-10-1	
Methyl-tert-butyl ether	0.495	mg/kg	0.165	80	01/14/21 15:45	01/19/21 05:38	1634-04-4	
Naphthalene	27.0	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	91-20-3	
n-Propylbenzene	35.1	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	103-65-1	
Styrene	ND	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	76-13-1	
Tetrachloroethene	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	127-18-4	
Toluene	231	mg/kg	4.13	400	01/14/21 15:45	01/20/21 01:00	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	79-00-5	
Trichloroethene	ND	mg/kg	0.165	80	01/14/21 15:45	01/19/21 05:38	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	2.06	80	01/14/21 15:45	01/19/21 05:38	96-18-4	
1,2,4-Trimethylbenzene	56.3	mg/kg	4.13	400	01/14/21 15:45	01/20/21 01:00	95-63-6	
1,2,3-Trimethylbenzene	55.5	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	526-73-8	
1,3,5-Trimethylbenzene	48.1	mg/kg	0.825	80	01/14/21 15:45	01/19/21 05:38	108-67-8	
Vinyl chloride	ND	mg/kg	0.413	80	01/14/21 15:45	01/19/21 05:38	75-01-4	
Xylene (Total)	287	mg/kg	5.36	400	01/14/21 15:45	01/20/21 01:00	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	100	%	75.0-131	80	01/14/21 15:45	01/19/21 05:38	2037-26-5	
Toluene-d8 (S)	105	%	75.0-131	400	01/14/21 15:45	01/20/21 01:00	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67.0-138	80	01/14/21 15:45	01/19/21 05:38	460-00-4	
4-Bromofluorobenzene (S)	108	%	67.0-138	400	01/14/21 15:45	01/20/21 01:00	460-00-4	
1,2-Dichloroethane-d4 (S)	98.3	%	70.0-130	80	01/14/21 15:45	01/19/21 05:38	17060-07-0	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130	400	01/14/21 15:45	01/20/21 01:00	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids	75.6	%		1	01/19/21 10:01	01/19/21 10:11		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-175-B**      **Lab ID: 92516902023**      Collected: 01/14/21 16:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	<b>4220</b>	mg/kg	134	20	01/14/21 16:00	01/19/21 10:03		
Aliphatic (C09-C12)	<b>3810</b>	mg/kg	134	20	01/14/21 16:00	01/19/21 10:03		
Aromatic (C09-C10),Unadjusted	<b>1260</b>	mg/kg	670	100	01/14/21 16:00	01/20/21 01:43	TPHC9C10A	
Total VPH	<b>9290</b>	mg/kg	134	20	01/14/21 16:00	01/19/21 10:03	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	104	%	70.0-130	20	01/14/21 16:00	01/19/21 10:03	615-59-8FID	
2,5-Dibromotoluene (FID)	102	%	70.0-130	100	01/14/21 16:00	01/20/21 01:43	615-59-8FID	
2,5-Dibromotoluene (PID)	94.7	%	70.0-130	20	01/14/21 16:00	01/19/21 10:03	615-59-8PID	
2,5-Dibromotoluene (PID)	93.2	%	70.0-130	100	01/14/21 16:00	01/20/21 01:43	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	5.36	80	01/14/21 16:00	01/19/21 05:56	67-64-1	
Acrylonitrile	ND	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	107-13-1	
Benzene	<b>47.0</b>	mg/kg	0.107	80	01/14/21 16:00	01/19/21 05:56	71-43-2	
Bromobenzene	ND	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	108-86-1	
Bromodichloromethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	75-27-4	
Bromoform	ND	mg/kg	2.68	80	01/14/21 16:00	01/19/21 05:56	75-25-2	
Bromomethane	ND	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	74-83-9	
n-Butylbenzene	<b>4.89</b>	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	104-51-8	
sec-Butylbenzene	ND	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	56-23-5	
Chlorobenzene	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	108-90-7	
Dibromochloromethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	124-48-1	
Chloroethane	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	75-00-3	
Chloroform	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	67-66-3	
Chloromethane	ND	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	2.68	80	01/14/21 16:00	01/19/21 05:56	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	106-93-4	
Dibromomethane	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	142-28-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-175-B**      **Lab ID: 92516902023**      Collected: 01/14/21 16:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>		Analytical Method: EPA 8260D    Preparation Method: 5035A Pace National - Mt. Juliet						
cis-1,3-Dichloropropene	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	594-20-7	
Diisopropyl ether	ND	mg/kg	0.107	80	01/14/21 16:00	01/19/21 05:56	108-20-3	
Ethylbenzene	<b>125</b>	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	2.68	80	01/14/21 16:00	01/19/21 05:56	87-68-3	
Isopropylbenzene (Cumene)	<b>10.4</b>	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	98-82-8	
p-Isopropyltoluene	<b>1.31</b>	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	99-87-6	
2-Butanone (MEK)	ND	mg/kg	10.7	80	01/14/21 16:00	01/19/21 05:56	78-93-3	
Methylene Chloride	ND	mg/kg	2.68	80	01/14/21 16:00	01/19/21 05:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.68	80	01/14/21 16:00	01/19/21 05:56	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.107	80	01/14/21 16:00	01/19/21 05:56	1634-04-4	
Naphthalene	<b>26.9</b>	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	91-20-3	
n-Propylbenzene	<b>36.6</b>	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	103-65-1	
Styrene	ND	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	76-13-1	
Tetrachloroethene	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	127-18-4	
Toluene	<b>292</b>	mg/kg	2.68	400	01/14/21 16:00	01/20/21 01:19	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	79-00-5	
Trichloroethene	ND	mg/kg	0.107	80	01/14/21 16:00	01/19/21 05:56	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	1.34	80	01/14/21 16:00	01/19/21 05:56	96-18-4	
1,2,4-Trimethylbenzene	<b>119</b>	mg/kg	2.68	400	01/14/21 16:00	01/20/21 01:19	95-63-6	
1,2,3-Trimethylbenzene	<b>56.0</b>	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	526-73-8	
1,3,5-Trimethylbenzene	<b>54.4</b>	mg/kg	0.536	80	01/14/21 16:00	01/19/21 05:56	108-67-8	
Vinyl chloride	ND	mg/kg	0.268	80	01/14/21 16:00	01/19/21 05:56	75-01-4	
Xylene (Total)	<b>360</b>	mg/kg	3.48	400	01/14/21 16:00	01/20/21 01:19	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	99.3	%	75.0-131	80	01/14/21 16:00	01/19/21 05:56	2037-26-5	
Toluene-d8 (S)	104	%	75.0-131	400	01/14/21 16:00	01/20/21 01:19	2037-26-5	
4-Bromofluorobenzene (S)	102	%	67.0-138	80	01/14/21 16:00	01/19/21 05:56	460-00-4	
4-Bromofluorobenzene (S)	108	%	67.0-138	400	01/14/21 16:00	01/20/21 01:19	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70.0-130	80	01/14/21 16:00	01/19/21 05:56	17060-07-0	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130	400	01/14/21 16:00	01/20/21 01:19	17060-07-0	
<b>Total Solids 2540 G-2011</b>		Analytical Method: SM 2540G    Preparation Method: SM 2540 G Pace National - Mt. Juliet						
Total Solids	<b>89.9</b>	%		1	01/19/21 10:01	01/19/21 10:11		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-175-E**      **Lab ID: 92516902024**      Collected: 01/14/21 16:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	<b>4380</b>	mg/kg	183	20	01/14/21 16:00	01/19/21 10:36		
Aliphatic (C09-C12)	<b>3350</b>	mg/kg	183	20	01/14/21 16:00	01/19/21 10:36		
Aromatic (C09-C10),Unadjusted	<b>811</b>	mg/kg	183	20	01/14/21 16:00	01/19/21 10:36	TPHC9C10A	
Total VPH	<b>8540</b>	mg/kg	183	20	01/14/21 16:00	01/19/21 10:36	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	101	%	70.0-130	20	01/14/21 16:00	01/19/21 10:36	615-59-8FID	
2,5-Dibromotoluene (PID)	91.8	%	70.0-130	20	01/14/21 16:00	01/19/21 10:36	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
Acetone	ND	mg/kg	7.33	80	01/14/21 16:00	01/19/21 06:15	67-64-1	
Acrylonitrile	ND	mg/kg	1.83	80	01/14/21 16:00	01/19/21 06:15	107-13-1	
Benzene	<b>101</b>	mg/kg	0.147	80	01/14/21 16:00	01/19/21 06:15	71-43-2	
Bromobenzene	ND	mg/kg	1.83	80	01/14/21 16:00	01/19/21 06:15	108-86-1	
Bromodichloromethane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	75-27-4	
Bromoform	ND	mg/kg	3.66	80	01/14/21 16:00	01/19/21 06:15	75-25-2	
Bromomethane	ND	mg/kg	1.83	80	01/14/21 16:00	01/19/21 06:15	74-83-9	
n-Butylbenzene	<b>5.02</b>	mg/kg	1.83	80	01/14/21 16:00	01/19/21 06:15	104-51-8	
sec-Butylbenzene	<b>2.31</b>	mg/kg	1.83	80	01/14/21 16:00	01/19/21 06:15	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	56-23-5	
Chlorobenzene	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	108-90-7	
Dibromochloromethane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	124-48-1	
Chloroethane	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	75-00-3	
Chloroform	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	67-66-3	
Chloromethane	ND	mg/kg	1.83	80	01/14/21 16:00	01/19/21 06:15	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	3.66	80	01/14/21 16:00	01/19/21 06:15	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	106-93-4	
Dibromomethane	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	75-71-8	
1,1-Dichloroethane	<b>0.745</b>	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	10061-02-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-175-E**      **Lab ID: 92516902024**      Collected: 01/14/21 16:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

2,2-Dichloropropane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	594-20-7	
Diisopropyl ether	16.0	mg/kg	0.147	80	01/14/21 16:00	01/19/21 06:15	108-20-3	
Ethylbenzene	68.3	mg/kg	1.83	400	01/14/21 16:00	01/20/21 01:38	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	3.66	80	01/14/21 16:00	01/19/21 06:15	87-68-3	
Isopropylbenzene (Cumene)	10.8	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	98-82-8	
p-Isopropyltoluene	1.12	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	99-87-6	
2-Butanone (MEK)	ND	mg/kg	14.7	80	01/14/21 16:00	01/19/21 06:15	78-93-3	
Methylene Chloride	ND	mg/kg	3.66	80	01/14/21 16:00	01/19/21 06:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	3.66	80	01/14/21 16:00	01/19/21 06:15	108-10-1	
Methyl-tert-butyl ether	1.44	mg/kg	0.147	80	01/14/21 16:00	01/19/21 06:15	1634-04-4	
Naphthalene	12.2	mg/kg	9.16	400	01/14/21 16:00	01/20/21 01:38	91-20-3	
n-Propylbenzene	32.8	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	103-65-1	
Styrene	ND	mg/kg	1.83	80	01/14/21 16:00	01/19/21 06:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	76-13-1	
Tetrachloroethene	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	127-18-4	
Toluene	249	mg/kg	3.66	400	01/14/21 16:00	01/20/21 01:38	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	1.83	80	01/14/21 16:00	01/19/21 06:15	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	1.83	80	01/14/21 16:00	01/19/21 06:15	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	79-00-5	
Trichloroethene	ND	mg/kg	0.147	80	01/14/21 16:00	01/19/21 06:15	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	1.83	80	01/14/21 16:00	01/19/21 06:15	96-18-4	
1,2,4-Trimethylbenzene	57.9	mg/kg	3.66	400	01/14/21 16:00	01/20/21 01:38	95-63-6	
1,2,3-Trimethylbenzene	53.5	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	526-73-8	
1,3,5-Trimethylbenzene	48.0	mg/kg	0.733	80	01/14/21 16:00	01/19/21 06:15	108-67-8	
Vinyl chloride	ND	mg/kg	0.366	80	01/14/21 16:00	01/19/21 06:15	75-01-4	
Xylene (Total)	392	mg/kg	4.76	400	01/14/21 16:00	01/20/21 01:38	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	102	%	75.0-131	80	01/14/21 16:00	01/19/21 06:15	2037-26-5	
Toluene-d8 (S)	107	%	75.0-131	400	01/14/21 16:00	01/20/21 01:38	2037-26-5	
4-Bromofluorobenzene (S)	103	%	67.0-138	80	01/14/21 16:00	01/19/21 06:15	460-00-4	
4-Bromofluorobenzene (S)	109	%	67.0-138	400	01/14/21 16:00	01/20/21 01:38	460-00-4	
1,2-Dichloroethane-d4 (S)	97.2	%	70.0-130	80	01/14/21 16:00	01/19/21 06:15	17060-07-0	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130	400	01/14/21 16:00	01/20/21 01:38	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	79.2	%		1	01/19/21 10:01	01/19/21 10:11		
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-175-W**      **Lab ID: 92516902025**      Collected: 01/14/21 16:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	mg/kg	10.5	1	01/14/21 16:00	01/19/21 06:11		
Aliphatic (C09-C12)	ND	mg/kg	10.5	1	01/14/21 16:00	01/19/21 06:11		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	10.5	1	01/14/21 16:00	01/19/21 06:11	TPHC9C10A	
Total VPH	ND	mg/kg	10.5	1	01/14/21 16:00	01/19/21 06:11	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	95.8	%	70.0-130	1	01/14/21 16:00	01/19/21 06:11	615-59-8FID	
2,5-Dibromotoluene (PID)	87.6	%	70.0-130	1	01/14/21 16:00	01/19/21 06:11	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	<b>0.418</b>	mg/kg	0.105	1	01/14/21 16:00	01/19/21 02:09	67-64-1	
Acrylonitrile	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	107-13-1	
Benzene	<b>0.102</b>	mg/kg	0.00210	1	01/14/21 16:00	01/19/21 02:09	71-43-2	
Bromobenzene	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	75-27-4	
Bromoform	ND	mg/kg	0.0525	1	01/14/21 16:00	01/19/21 02:09	75-25-2	
Bromomethane	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	56-23-5	
Chlorobenzene	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	124-48-1	
Chloroethane	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	75-00-3	
Chloroform	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	67-66-3	
Chloromethane	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0525	1	01/14/21 16:00	01/19/21 02:09	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	106-93-4	
Dibromomethane	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448  
Pace Project No.: 92516902

**Sample: L2-175-W**      **Lab ID: 92516902025**      Collected: 01/14/21 16:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	594-20-7	
Diisopropyl ether	<b>0.0128</b>	mg/kg	0.00210	1	01/14/21 16:00	01/19/21 02:09	108-20-3	
Ethylbenzene	<b>0.0681</b>	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0525	1	01/14/21 16:00	01/19/21 02:09	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	99-87-6	
2-Butanone (MEK)	<b>0.273</b>	mg/kg	0.210	1	01/14/21 16:00	01/19/21 02:09	78-93-3	
Methylene Chloride	ND	mg/kg	0.0525	1	01/14/21 16:00	01/19/21 02:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0525	1	01/14/21 16:00	01/19/21 02:09	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00210	1	01/14/21 16:00	01/19/21 02:09	1634-04-4	
Naphthalene	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	103-65-1	
Styrene	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	127-18-4	
Toluene	<b>0.403</b>	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	79-00-5	
Trichloroethene	ND	mg/kg	0.00210	1	01/14/21 16:00	01/19/21 02:09	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0263	1	01/14/21 16:00	01/19/21 02:09	96-18-4	
1,2,4-Trimethylbenzene	<b>0.0601</b>	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	95-63-6	
1,2,3-Trimethylbenzene	<b>0.0191</b>	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	526-73-8	
1,3,5-Trimethylbenzene	<b>0.0144</b>	mg/kg	0.0105	1	01/14/21 16:00	01/19/21 02:09	108-67-8	
Vinyl chloride	ND	mg/kg	0.00525	1	01/14/21 16:00	01/19/21 02:09	75-01-4	
Xylene (Total)	<b>0.399</b>	mg/kg	0.0137	1	01/14/21 16:00	01/19/21 02:09	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	102	%	75.0-131	1	01/14/21 16:00	01/19/21 02:09	2037-26-5	
4-Bromofluorobenzene (S)	102	%	67.0-138	1	01/14/21 16:00	01/19/21 02:09	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130	1	01/14/21 16:00	01/19/21 02:09	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>74.2</b>	%		1	01/19/21 10:01	01/19/21 10:11		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-200-B**      **Lab ID: 92516902026**      Collected: 01/14/21 16:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEP VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	mg/kg	9.07	1	01/14/21 16:30	01/19/21 06:44		
Aliphatic (C09-C12)	ND	mg/kg	9.07	1	01/14/21 16:30	01/19/21 06:44		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	9.07	1	01/14/21 16:30	01/19/21 06:44	TPHC9C10A	
Total VPH	ND	mg/kg	9.07	1	01/14/21 16:30	01/19/21 06:44	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	95.2	%	70.0-130	1	01/14/21 16:30	01/19/21 06:44	615-59-8FID	
2,5-Dibromotoluene (PID)	86.7	%	70.0-130	1	01/14/21 16:30	01/19/21 06:44	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
Acetone	ND	mg/kg	0.0907	1	01/14/21 16:30	01/19/21 02:28	67-64-1	
Acrylonitrile	ND	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	107-13-1	
Benzene	<b>0.00620</b>	mg/kg	0.00181	1	01/14/21 16:30	01/19/21 02:28	71-43-2	B
Bromobenzene	ND	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	75-27-4	
Bromoform	ND	mg/kg	0.0453	1	01/14/21 16:30	01/19/21 02:28	75-25-2	
Bromomethane	ND	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	56-23-5	
Chlorobenzene	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	124-48-1	
Chloroethane	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	75-00-3	
Chloroform	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	67-66-3	
Chloromethane	ND	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0453	1	01/14/21 16:30	01/19/21 02:28	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	106-93-4	
Dibromomethane	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	10061-02-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-200-B**      **Lab ID: 92516902026**      Collected: 01/14/21 16:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	594-20-7	
Diisopropyl ether	<b>0.00448</b>	mg/kg	0.00181	1	01/14/21 16:30	01/19/21 02:28	108-20-3	
Ethylbenzene	<b>0.00753</b>	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0453	1	01/14/21 16:30	01/19/21 02:28	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.181	1	01/14/21 16:30	01/19/21 02:28	78-93-3	
Methylene Chloride	ND	mg/kg	0.0453	1	01/14/21 16:30	01/19/21 02:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0453	1	01/14/21 16:30	01/19/21 02:28	108-10-1	
Methyl-tert-butyl ether	<b>0.00381</b>	mg/kg	0.00181	1	01/14/21 16:30	01/19/21 02:28	1634-04-4	
Naphthalene	<b>0.0502</b>	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	103-65-1	
Styrene	ND	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	127-18-4	
Toluene	<b>0.0346</b>	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	79-00-5	
Trichloroethene	ND	mg/kg	0.00181	1	01/14/21 16:30	01/19/21 02:28	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0227	1	01/14/21 16:30	01/19/21 02:28	96-18-4	
1,2,4-Trimethylbenzene	<b>0.0261</b>	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	95-63-6	
1,2,3-Trimethylbenzene	<b>0.0142</b>	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00907	1	01/14/21 16:30	01/19/21 02:28	108-67-8	
Vinyl chloride	ND	mg/kg	0.00453	1	01/14/21 16:30	01/19/21 02:28	75-01-4	
Xylene (Total)	<b>0.0646</b>	mg/kg	0.0118	1	01/14/21 16:30	01/19/21 02:28	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	104	%	75.0-131	1	01/14/21 16:30	01/19/21 02:28	2037-26-5	
4-Bromofluorobenzene (S)	101	%	67.0-138	1	01/14/21 16:30	01/19/21 02:28	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70.0-130	1	01/14/21 16:30	01/19/21 02:28	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>79.6</b>	%		1	01/19/21 10:01	01/19/21 10:11		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-200-E**      **Lab ID: 92516902027**      Collected: 01/14/21 16:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	<b>3460</b>	mg/kg	162	20	01/14/21 16:30	01/19/21 11:09		
Aliphatic (C09-C12)	<b>4520</b>	mg/kg	162	20	01/14/21 16:30	01/19/21 11:09		
Aromatic (C09-C10),Unadjusted	<b>1230</b>	mg/kg	812	100	01/14/21 16:30	01/20/21 02:16	TPHC9C10A	
Total VPH	<b>9210</b>	mg/kg	162	20	01/14/21 16:30	01/19/21 11:09	VPH	

**Surrogates**

2,5-Dibromotoluene (FID)	96.8	%	70.0-130	20	01/14/21 16:30	01/19/21 11:09	615-59-8FID	
2,5-Dibromotoluene (FID)	104	%	70.0-130	100	01/14/21 16:30	01/20/21 02:16	615-59-8FID	
2,5-Dibromotoluene (PID)	87.3	%	70.0-130	20	01/14/21 16:30	01/19/21 11:09	615-59-8PID	
2,5-Dibromotoluene (PID)	95.4	%	70.0-130	100	01/14/21 16:30	01/20/21 02:16	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	6.50	80	01/14/21 16:30	01/19/21 06:34	67-64-1	
Acrylonitrile	ND	mg/kg	1.62	80	01/14/21 16:30	01/19/21 06:34	107-13-1	
Benzene	<b>110</b>	mg/kg	0.130	80	01/14/21 16:30	01/19/21 06:34	71-43-2	
Bromobenzene	ND	mg/kg	1.62	80	01/14/21 16:30	01/19/21 06:34	108-86-1	
Bromodichloromethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	75-27-4	
Bromoform	ND	mg/kg	3.25	80	01/14/21 16:30	01/19/21 06:34	75-25-2	
Bromomethane	ND	mg/kg	1.62	80	01/14/21 16:30	01/19/21 06:34	74-83-9	
n-Butylbenzene	<b>6.74</b>	mg/kg	1.62	80	01/14/21 16:30	01/19/21 06:34	104-51-8	
sec-Butylbenzene	<b>4.13</b>	mg/kg	1.62	80	01/14/21 16:30	01/19/21 06:34	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	56-23-5	
Chlorobenzene	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	108-90-7	
Dibromochloromethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	124-48-1	
Chloroethane	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	75-00-3	
Chloroform	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	67-66-3	
Chloromethane	ND	mg/kg	1.62	80	01/14/21 16:30	01/19/21 06:34	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	3.25	80	01/14/21 16:30	01/19/21 06:34	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	106-93-4	
Dibromomethane	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	142-28-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-200-E**      **Lab ID: 92516902027**      Collected: 01/14/21 16:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
cis-1,3-Dichloropropene	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	594-20-7	
Diisopropyl ether	<b>11.8</b>	mg/kg	0.130	80	01/14/21 16:30	01/19/21 06:34	108-20-3	
Ethylbenzene	<b>169</b>	mg/kg	3.25	800	01/14/21 16:30	01/20/21 01:56	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	3.25	80	01/14/21 16:30	01/19/21 06:34	87-68-3	
Isopropylbenzene (Cumene)	<b>19.8</b>	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	98-82-8	
p-Isopropyltoluene	<b>2.14</b>	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	99-87-6	
2-Butanone (MEK)	ND	mg/kg	13.0	80	01/14/21 16:30	01/19/21 06:34	78-93-3	
Methylene Chloride	ND	mg/kg	3.25	80	01/14/21 16:30	01/19/21 06:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	3.25	80	01/14/21 16:30	01/19/21 06:34	108-10-1	
Methyl-tert-butyl ether	<b>0.911</b>	mg/kg	0.130	80	01/14/21 16:30	01/19/21 06:34	1634-04-4	
Naphthalene	<b>36.7</b>	mg/kg	16.2	800	01/14/21 16:30	01/20/21 01:56	91-20-3	
n-Propylbenzene	<b>61.9</b>	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	103-65-1	
Styrene	ND	mg/kg	1.62	80	01/14/21 16:30	01/19/21 06:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	76-13-1	
Tetrachloroethene	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	127-18-4	
Toluene	<b>585</b>	mg/kg	6.50	800	01/14/21 16:30	01/20/21 01:56	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	1.62	80	01/14/21 16:30	01/19/21 06:34	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	1.62	80	01/14/21 16:30	01/19/21 06:34	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	79-00-5	
Trichloroethene	ND	mg/kg	0.130	80	01/14/21 16:30	01/19/21 06:34	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	1.62	80	01/14/21 16:30	01/19/21 06:34	96-18-4	
1,2,4-Trimethylbenzene	<b>218</b>	mg/kg	6.50	800	01/14/21 16:30	01/20/21 01:56	95-63-6	
1,2,3-Trimethylbenzene	<b>99.6</b>	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	526-73-8	
1,3,5-Trimethylbenzene	<b>79.8</b>	mg/kg	0.650	80	01/14/21 16:30	01/19/21 06:34	108-67-8	
Vinyl chloride	ND	mg/kg	0.325	80	01/14/21 16:30	01/19/21 06:34	75-01-4	
Xylene (Total)	<b>991</b>	mg/kg	8.45	800	01/14/21 16:30	01/20/21 01:56	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	105	%	75.0-131	80	01/14/21 16:30	01/19/21 06:34	2037-26-5	
Toluene-d8 (S)	105	%	75.0-131	800	01/14/21 16:30	01/20/21 01:56	2037-26-5	
4-Bromofluorobenzene (S)	105	%	67.0-138	80	01/14/21 16:30	01/19/21 06:34	460-00-4	
4-Bromofluorobenzene (S)	111	%	67.0-138	800	01/14/21 16:30	01/20/21 01:56	460-00-4	
1,2-Dichloroethane-d4 (S)	94.8	%	70.0-130	80	01/14/21 16:30	01/19/21 06:34	17060-07-0	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130	800	01/14/21 16:30	01/20/21 01:56	17060-07-0	
<b>Total Solids 2540 G-2011</b>								
Analytical Method: SM 2540G    Preparation Method: SM 2540 G								
Pace National - Mt. Juliet								
Total Solids	<b>84.5</b>	%		1	01/19/21 10:01	01/19/21 10:11		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-200-W**      **Lab ID: 92516902028**      Collected: 01/14/21 16:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
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**MADEPV**

Analytical Method: MADEPV VPH      Preparation Method: MADEPV  
Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	mg/kg	8.45	1	01/14/21 16:30	01/19/21 07:17		
Aliphatic (C09-C12)	ND	mg/kg	8.45	1	01/14/21 16:30	01/19/21 07:17		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	8.45	1	01/14/21 16:30	01/19/21 07:17	TPHC9C10A	
Total VPH	ND	mg/kg	8.45	1	01/14/21 16:30	01/19/21 07:17	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	92.4	%	70.0-130	1	01/14/21 16:30	01/19/21 07:17	615-59-8FID	
2,5-Dibromotoluene (PID)	84.3	%	70.0-130	1	01/14/21 16:30	01/19/21 07:17	615-59-8PID	

**VOA (GC/MS) 8260D**

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0845	1	01/14/21 16:30	01/19/21 02:47	67-64-1	
Acrylonitrile	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	107-13-1	
Benzene	<b>0.00991</b>	mg/kg	0.00169	1	01/14/21 16:30	01/19/21 02:47	71-43-2	B
Bromobenzene	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	75-27-4	
Bromoform	ND	mg/kg	0.0423	1	01/14/21 16:30	01/19/21 02:47	75-25-2	
Bromomethane	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	56-23-5	
Chlorobenzene	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	124-48-1	
Chloroethane	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	75-00-3	
Chloroform	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	67-66-3	
Chloromethane	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0423	1	01/14/21 16:30	01/19/21 02:47	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	106-93-4	
Dibromomethane	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-200-W**      **Lab ID: 92516902028**      Collected: 01/14/21 16:30      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00169	1	01/14/21 16:30	01/19/21 02:47	108-20-3	
Ethylbenzene	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0423	1	01/14/21 16:30	01/19/21 02:47	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.169	1	01/14/21 16:30	01/19/21 02:47	78-93-3	
Methylene Chloride	ND	mg/kg	0.0423	1	01/14/21 16:30	01/19/21 02:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0423	1	01/14/21 16:30	01/19/21 02:47	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00169	1	01/14/21 16:30	01/19/21 02:47	1634-04-4	
Naphthalene	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	103-65-1	
Styrene	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	127-18-4	
Toluene	<b>0.0235</b>	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	79-00-5	
Trichloroethene	ND	mg/kg	0.00169	1	01/14/21 16:30	01/19/21 02:47	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0211	1	01/14/21 16:30	01/19/21 02:47	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00845	1	01/14/21 16:30	01/19/21 02:47	108-67-8	
Vinyl chloride	ND	mg/kg	0.00423	1	01/14/21 16:30	01/19/21 02:47	75-01-4	
Xylene (Total)	<b>0.0220</b>	mg/kg	0.0110	1	01/14/21 16:30	01/19/21 02:47	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	103	%	75.0-131	1	01/14/21 16:30	01/19/21 02:47	2037-26-5	
4-Bromofluorobenzene (S)	97.8	%	67.0-138	1	01/14/21 16:30	01/19/21 02:47	460-00-4	
1,2-Dichloroethane-d4 (S)	99.9	%	70.0-130	1	01/14/21 16:30	01/19/21 02:47	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>82.3</b>	%		1	01/19/21 10:01	01/19/21 10:11		
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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-225-B**      **Lab ID: 92516902029**      Collected: 01/15/21 11:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	15.1	mg/kg	9.02	1	01/15/21 11:00	01/20/21 02:49		
Aliphatic (C09-C12)	ND	mg/kg	9.02	1	01/15/21 11:00	01/20/21 02:49		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	9.02	1	01/15/21 11:00	01/20/21 02:49	TPHC9C10A	
Total VPH	15.1	mg/kg	9.02	1	01/15/21 11:00	01/20/21 02:49	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	97.0	%	70.0-130	1	01/15/21 11:00	01/20/21 02:49	615-59-8FID	
2,5-Dibromotoluene (PID)	88.9	%	70.0-130	1	01/15/21 11:00	01/20/21 02:49	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
Acetone	ND	mg/kg	0.0902	1	01/15/21 11:00	01/19/21 03:06	67-64-1	
Acrylonitrile	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	107-13-1	
Benzene	0.00561	mg/kg	0.00180	1	01/15/21 11:00	01/19/21 03:06	71-43-2	B
Bromobenzene	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	75-27-4	
Bromoform	ND	mg/kg	0.0451	1	01/15/21 11:00	01/19/21 03:06	75-25-2	
Bromomethane	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	56-23-5	
Chlorobenzene	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	124-48-1	
Chloroethane	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	75-00-3	
Chloroform	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	67-66-3	
Chloromethane	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0451	1	01/15/21 11:00	01/19/21 03:06	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	106-93-4	
Dibromomethane	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448  
Pace Project No.: 92516902

**Sample: L2-225-B**      **Lab ID: 92516902029**      Collected: 01/15/21 11:00      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>		Analytical Method: EPA 8260D    Preparation Method: 5035A Pace National - Mt. Juliet						
2,2-Dichloropropane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	594-20-7	
Diisopropyl ether	<b>0.00417</b>	mg/kg	0.00180	1	01/15/21 11:00	01/19/21 03:06	108-20-3	
Ethylbenzene	<b>0.00893</b>	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0451	1	01/15/21 11:00	01/19/21 03:06	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.180	1	01/15/21 11:00	01/19/21 03:06	78-93-3	
Methylene Chloride	ND	mg/kg	0.0451	1	01/15/21 11:00	01/19/21 03:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0451	1	01/15/21 11:00	01/19/21 03:06	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00180	1	01/15/21 11:00	01/19/21 03:06	1634-04-4	
Naphthalene	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	103-65-1	
Styrene	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	127-18-4	
Toluene	<b>0.0316</b>	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	79-00-5	
Trichloroethene	ND	mg/kg	0.00180	1	01/15/21 11:00	01/19/21 03:06	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0225	1	01/15/21 11:00	01/19/21 03:06	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00902	1	01/15/21 11:00	01/19/21 03:06	108-67-8	
Vinyl chloride	ND	mg/kg	0.00451	1	01/15/21 11:00	01/19/21 03:06	75-01-4	
Xylene (Total)	<b>0.0337</b>	mg/kg	0.0117	1	01/15/21 11:00	01/19/21 03:06	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	104	%	75.0-131	1	01/15/21 11:00	01/19/21 03:06	2037-26-5	
4-Bromofluorobenzene (S)	96.3	%	67.0-138	1	01/15/21 11:00	01/19/21 03:06	460-00-4	
1,2-Dichloroethane-d4 (S)	99.1	%	70.0-130	1	01/15/21 11:00	01/19/21 03:06	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids	<b>79.9</b>	%		1	01/19/21 10:01	01/19/21 10:11		
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448  
Pace Project No.: 92516902

**Sample: L2-225-E**      **Lab ID: 92516902030**      Collected: 01/15/21 10:55      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	16.7	mg/kg	9.05	1	01/15/21 10:55	01/20/21 03:22		
Aliphatic (C09-C12)	ND	mg/kg	9.05	1	01/15/21 10:55	01/20/21 03:22		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	9.05	1	01/15/21 10:55	01/20/21 03:22	TPHC9C10A	
Total VPH	16.7	mg/kg	9.05	1	01/15/21 10:55	01/20/21 03:22	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	100	%	70.0-130	1	01/15/21 10:55	01/20/21 03:22	615-59-8FID	
2,5-Dibromotoluene (PID)	91.5	%	70.0-130	1	01/15/21 10:55	01/20/21 03:22	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D      Preparation Method: 5035A  
Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0905	1	01/15/21 10:55	01/19/21 03:25	67-64-1	
Acrylonitrile	ND	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	107-13-1	
Benzene	ND	mg/kg	0.00181	1	01/15/21 10:55	01/19/21 03:25	71-43-2	B
Bromobenzene	ND	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	75-27-4	
Bromoform	ND	mg/kg	0.0453	1	01/15/21 10:55	01/19/21 03:25	75-25-2	
Bromomethane	ND	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	56-23-5	
Chlorobenzene	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	124-48-1	
Chloroethane	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	75-00-3	
Chloroform	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	67-66-3	
Chloromethane	ND	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0453	1	01/15/21 10:55	01/19/21 03:25	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	106-93-4	
Dibromomethane	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	10061-02-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448  
Pace Project No.: 92516902

**Sample: L2-225-E**      **Lab ID: 92516902030**      Collected: 01/15/21 10:55      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	594-20-7	
Diisopropyl ether	<b>0.0635</b>	mg/kg	0.00181	1	01/15/21 10:55	01/19/21 03:25	108-20-3	
Ethylbenzene	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0453	1	01/15/21 10:55	01/19/21 03:25	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.181	1	01/15/21 10:55	01/19/21 03:25	78-93-3	
Methylene Chloride	ND	mg/kg	0.0453	1	01/15/21 10:55	01/19/21 03:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0453	1	01/15/21 10:55	01/19/21 03:25	108-10-1	
Methyl-tert-butyl ether	<b>0.0337</b>	mg/kg	0.00181	1	01/15/21 10:55	01/19/21 03:25	1634-04-4	
Naphthalene	<b>0.157</b>	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	103-65-1	
Styrene	ND	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	127-18-4	
Toluene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	79-00-5	
Trichloroethene	ND	mg/kg	0.00181	1	01/15/21 10:55	01/19/21 03:25	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0226	1	01/15/21 10:55	01/19/21 03:25	96-18-4	
1,2,4-Trimethylbenzene	<b>0.0349</b>	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	95-63-6	
1,2,3-Trimethylbenzene	<b>0.0378</b>	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00905	1	01/15/21 10:55	01/19/21 03:25	108-67-8	
Vinyl chloride	ND	mg/kg	0.00453	1	01/15/21 10:55	01/19/21 03:25	75-01-4	
Xylene (Total)	<b>0.0230</b>	mg/kg	0.0118	1	01/15/21 10:55	01/19/21 03:25	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	105	%	75.0-131	1	01/15/21 10:55	01/19/21 03:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	67.0-138	1	01/15/21 10:55	01/19/21 03:25	460-00-4	
1,2-Dichloroethane-d4 (S)	96.5	%	70.0-130	1	01/15/21 10:55	01/19/21 03:25	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>79.9</b>	%		1	01/19/21 10:01	01/19/21 10:11		
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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-225-W**      **Lab ID: 92516902031**      Collected: 01/15/21 11:20      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	mg/kg	8.95	1	01/15/21 11:20	01/20/21 03:55		
Aliphatic (C09-C12)	ND	mg/kg	8.95	1	01/15/21 11:20	01/20/21 03:55		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	8.95	1	01/15/21 11:20	01/20/21 03:55	TPHC9C10A	
Total VPH	ND	mg/kg	8.95	1	01/15/21 11:20	01/20/21 03:55	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	97.3	%	70.0-130	1	01/15/21 11:20	01/20/21 03:55	615-59-8FID	
2,5-Dibromotoluene (PID)	89.3	%	70.0-130	1	01/15/21 11:20	01/20/21 03:55	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0895	1	01/15/21 11:20	01/19/21 03:44	67-64-1	
Acrylonitrile	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	107-13-1	
Benzene	<b>0.0158</b>	mg/kg	0.00179	1	01/15/21 11:20	01/19/21 03:44	71-43-2	B
Bromobenzene	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	75-27-4	
Bromoform	ND	mg/kg	0.0447	1	01/15/21 11:20	01/19/21 03:44	75-25-2	
Bromomethane	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	56-23-5	
Chlorobenzene	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	124-48-1	
Chloroethane	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	75-00-3	
Chloroform	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	67-66-3	
Chloromethane	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0447	1	01/15/21 11:20	01/19/21 03:44	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	106-93-4	
Dibromomethane	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	10061-02-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-225-W**      **Lab ID: 92516902031**      Collected: 01/15/21 11:20      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
2,2-Dichloropropane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00179	1	01/15/21 11:20	01/19/21 03:44	108-20-3	
Ethylbenzene	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0447	1	01/15/21 11:20	01/19/21 03:44	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.179	1	01/15/21 11:20	01/19/21 03:44	78-93-3	
Methylene Chloride	ND	mg/kg	0.0447	1	01/15/21 11:20	01/19/21 03:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0447	1	01/15/21 11:20	01/19/21 03:44	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00179	1	01/15/21 11:20	01/19/21 03:44	1634-04-4	
Naphthalene	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	103-65-1	
Styrene	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	127-18-4	
Toluene	<b>0.0363</b>	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	79-00-5	
Trichloroethene	ND	mg/kg	0.00179	1	01/15/21 11:20	01/19/21 03:44	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0224	1	01/15/21 11:20	01/19/21 03:44	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00895	1	01/15/21 11:20	01/19/21 03:44	108-67-8	
Vinyl chloride	ND	mg/kg	0.00447	1	01/15/21 11:20	01/19/21 03:44	75-01-4	
Xylene (Total)	<b>0.0190</b>	mg/kg	0.0116	1	01/15/21 11:20	01/19/21 03:44	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	101	%	75.0-131	1	01/15/21 11:20	01/19/21 03:44	2037-26-5	
4-Bromofluorobenzene (S)	102	%	67.0-138	1	01/15/21 11:20	01/19/21 03:44	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70.0-130	1	01/15/21 11:20	01/19/21 03:44	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>82.4</b>	%		1	01/19/21 10:01	01/19/21 10:11		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-243-B**      **Lab ID: 92516902032**      Collected: 01/15/21 11:05      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	21.9	mg/kg	7.92	1	01/15/21 11:05	01/20/21 04:29		
Aliphatic (C09-C12)	ND	mg/kg	7.92	1	01/15/21 11:05	01/20/21 04:29		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	7.92	1	01/15/21 11:05	01/20/21 04:29	TPHC9C10A	
Total VPH	21.9	mg/kg	7.92	1	01/15/21 11:05	01/20/21 04:29	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	98.6	%	70.0-130	1	01/15/21 11:05	01/20/21 04:29	615-59-8FID	
2,5-Dibromotoluene (PID)	90.8	%	70.0-130	1	01/15/21 11:05	01/20/21 04:29	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0792	1	01/15/21 11:05	01/19/21 04:03	67-64-1	
Acrylonitrile	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	107-13-1	
Benzene	0.103	mg/kg	0.00158	1	01/15/21 11:05	01/19/21 04:03	71-43-2	
Bromobenzene	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	75-27-4	
Bromoform	ND	mg/kg	0.0396	1	01/15/21 11:05	01/19/21 04:03	75-25-2	
Bromomethane	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	56-23-5	
Chlorobenzene	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	124-48-1	
Chloroethane	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	75-00-3	
Chloroform	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	67-66-3	
Chloromethane	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0396	1	01/15/21 11:05	01/19/21 04:03	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	106-93-4	
Dibromomethane	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	10061-02-6	

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### ANALYTICAL RESULTS

Project: 2020-L1-2448  
Pace Project No.: 92516902

**Sample: L2-243-B**      **Lab ID: 92516902032**      Collected: 01/15/21 11:05      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>		Analytical Method: EPA 8260D    Preparation Method: 5035A Pace National - Mt. Juliet						
2,2-Dichloropropane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00158	1	01/15/21 11:05	01/19/21 04:03	108-20-3	
Ethylbenzene	<b>0.00793</b>	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0396	1	01/15/21 11:05	01/19/21 04:03	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.158	1	01/15/21 11:05	01/19/21 04:03	78-93-3	
Methylene Chloride	ND	mg/kg	0.0396	1	01/15/21 11:05	01/19/21 04:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0396	1	01/15/21 11:05	01/19/21 04:03	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00158	1	01/15/21 11:05	01/19/21 04:03	1634-04-4	
Naphthalene	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	103-65-1	
Styrene	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	127-18-4	
Toluene	<b>0.0922</b>	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	79-00-5	
Trichloroethene	ND	mg/kg	0.00158	1	01/15/21 11:05	01/19/21 04:03	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0198	1	01/15/21 11:05	01/19/21 04:03	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00792	1	01/15/21 11:05	01/19/21 04:03	108-67-8	
Vinyl chloride	ND	mg/kg	0.00396	1	01/15/21 11:05	01/19/21 04:03	75-01-4	
Xylene (Total)	<b>0.0405</b>	mg/kg	0.0103	1	01/15/21 11:05	01/19/21 04:03	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	108	%	75.0-131	1	01/15/21 11:05	01/19/21 04:03	2037-26-5	
4-Bromofluorobenzene (S)	101	%	67.0-138	1	01/15/21 11:05	01/19/21 04:03	460-00-4	
1,2-Dichloroethane-d4 (S)	96.0	%	70.0-130	1	01/15/21 11:05	01/19/21 04:03	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids	<b>82.8</b>	%		1	01/18/21 13:12	01/18/21 13:22		
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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-243-E**      **Lab ID: 92516902033**      Collected: 01/15/21 11:10      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	mg/kg	10.2	1	01/15/21 11:10	01/20/21 05:03		
Aliphatic (C09-C12)	ND	mg/kg	10.2	1	01/15/21 11:10	01/20/21 05:03		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	10.2	1	01/15/21 11:10	01/20/21 05:03	TPHC9C10A	
Total VPH	ND	mg/kg	10.2	1	01/15/21 11:10	01/20/21 05:03	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	98.0	%	70.0-130	1	01/15/21 11:10	01/20/21 05:03	615-59-8FID	
2,5-Dibromotoluene (PID)	90.3	%	70.0-130	1	01/15/21 11:10	01/20/21 05:03	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.102	1	01/15/21 11:10	01/19/21 04:22	67-64-1	
Acrylonitrile	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	107-13-1	
Benzene	<b>0.0250</b>	mg/kg	0.00203	1	01/15/21 11:10	01/19/21 04:22	71-43-2	B
Bromobenzene	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	75-27-4	
Bromoform	ND	mg/kg	0.0509	1	01/15/21 11:10	01/19/21 04:22	75-25-2	
Bromomethane	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	56-23-5	
Chlorobenzene	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	124-48-1	
Chloroethane	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	75-00-3	
Chloroform	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	67-66-3	
Chloromethane	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0509	1	01/15/21 11:10	01/19/21 04:22	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	106-93-4	
Dibromomethane	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	10061-02-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448  
Pace Project No.: 92516902

**Sample: L2-243-E**      **Lab ID: 92516902033**      Collected: 01/15/21 11:10      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>		Analytical Method: EPA 8260D    Preparation Method: 5035A Pace National - Mt. Juliet						
2,2-Dichloropropane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00203	1	01/15/21 11:10	01/19/21 04:22	108-20-3	
Ethylbenzene	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0509	1	01/15/21 11:10	01/19/21 04:22	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.203	1	01/15/21 11:10	01/19/21 04:22	78-93-3	
Methylene Chloride	ND	mg/kg	0.0509	1	01/15/21 11:10	01/19/21 04:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0509	1	01/15/21 11:10	01/19/21 04:22	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00203	1	01/15/21 11:10	01/19/21 04:22	1634-04-4	
Naphthalene	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	103-65-1	
Styrene	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	127-18-4	
Toluene	<b>0.0506</b>	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	79-00-5	
Trichloroethene	ND	mg/kg	0.00203	1	01/15/21 11:10	01/19/21 04:22	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0254	1	01/15/21 11:10	01/19/21 04:22	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0102	1	01/15/21 11:10	01/19/21 04:22	108-67-8	
Vinyl chloride	ND	mg/kg	0.00509	1	01/15/21 11:10	01/19/21 04:22	75-01-4	
Xylene (Total)	<b>0.0182</b>	mg/kg	0.0132	1	01/15/21 11:10	01/19/21 04:22	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	107	%	75.0-131	1	01/15/21 11:10	01/19/21 04:22	2037-26-5	
4-Bromofluorobenzene (S)	101	%	67.0-138	1	01/15/21 11:10	01/19/21 04:22	460-00-4	
1,2-Dichloroethane-d4 (S)	98.1	%	70.0-130	1	01/15/21 11:10	01/19/21 04:22	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids	<b>78.8</b>	%		1	01/19/21 13:32	01/19/21 13:42		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-243-W**      **Lab ID: 92516902034**      Collected: 01/15/21 11:25      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	mg/kg	8.97	1	01/15/21 11:25	01/20/21 05:36		
Aliphatic (C09-C12)	ND	mg/kg	8.97	1	01/15/21 11:25	01/20/21 05:36		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	8.97	1	01/15/21 11:25	01/20/21 05:36	TPHC9C10A	
Total VPH	ND	mg/kg	8.97	1	01/15/21 11:25	01/20/21 05:36	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	99.2	%	70.0-130	1	01/15/21 11:25	01/20/21 05:36	615-59-8FID	
2,5-Dibromotoluene (PID)	91.0	%	70.0-130	1	01/15/21 11:25	01/20/21 05:36	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0855	1	01/15/21 11:25	01/19/21 10:41	67-64-1	L0
Acrylonitrile	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	107-13-1	
Benzene	<b>0.0171</b>	mg/kg	0.00171	1	01/15/21 11:25	01/19/21 10:41	71-43-2	
Bromobenzene	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	75-27-4	
Bromoform	ND	mg/kg	0.0428	1	01/15/21 11:25	01/19/21 10:41	75-25-2	
Bromomethane	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	56-23-5	
Chlorobenzene	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	124-48-1	
Chloroethane	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	75-00-3	
Chloroform	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	67-66-3	
Chloromethane	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0428	1	01/15/21 11:25	01/19/21 10:41	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	106-93-4	
Dibromomethane	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	10061-02-6	

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-243-W**      **Lab ID: 92516902034**      Collected: 01/15/21 11:25      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>		Analytical Method: EPA 8260D    Preparation Method: 5035A Pace National - Mt. Juliet						
2,2-Dichloropropane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	594-20-7	L0
Diisopropyl ether	ND	mg/kg	0.00171	1	01/15/21 11:25	01/19/21 10:41	108-20-3	
Ethylbenzene	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0428	1	01/15/21 11:25	01/19/21 10:41	87-68-3	C3
Isopropylbenzene (Cumene)	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.171	1	01/15/21 11:25	01/19/21 10:41	78-93-3	
Methylene Chloride	ND	mg/kg	0.0428	1	01/15/21 11:25	01/19/21 10:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0428	1	01/15/21 11:25	01/19/21 10:41	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00171	1	01/15/21 11:25	01/19/21 10:41	1634-04-4	
Naphthalene	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	103-65-1	
Styrene	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	127-18-4	
Toluene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	87-61-6	C3
1,2,4-Trichlorobenzene	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	120-82-1	C3
1,1,1-Trichloroethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	79-00-5	
Trichloroethene	ND	mg/kg	0.00171	1	01/15/21 11:25	01/19/21 10:41	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0214	1	01/15/21 11:25	01/19/21 10:41	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00855	1	01/15/21 11:25	01/19/21 10:41	108-67-8	
Vinyl chloride	ND	mg/kg	0.00428	1	01/15/21 11:25	01/19/21 10:41	75-01-4	
Xylene (Total)	<b>0.0171</b>	mg/kg	0.0111	1	01/15/21 11:25	01/19/21 10:41	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	97.8	%	75.0-131	1	01/15/21 11:25	01/19/21 10:41	2037-26-5	
4-Bromofluorobenzene (S)	99.2	%	67.0-138	1	01/15/21 11:25	01/19/21 10:41	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70.0-130	1	01/15/21 11:25	01/19/21 10:41	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>82.0</b>	%		1	01/19/21 13:32	01/19/21 13:42		
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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

**Sample: L2-South Wall**      **Lab ID: 92516902035**      Collected: 01/15/21 11:15      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	mg/kg	8.90	1	01/15/21 11:15	01/20/21 06:09		
Aliphatic (C09-C12)	ND	mg/kg	8.90	1	01/15/21 11:15	01/20/21 06:09		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	8.90	1	01/15/21 11:15	01/20/21 06:09	TPHC9C10A	
Total VPH	ND	mg/kg	8.90	1	01/15/21 11:15	01/20/21 06:09	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	99.9	%	70.0-130	1	01/15/21 11:15	01/20/21 06:09	615-59-8FID	
2,5-Dibromotoluene (PID)	91.6	%	70.0-130	1	01/15/21 11:15	01/20/21 06:09	615-59-8PID	

### VOA (GC/MS) 8260D

Analytical Method: EPA 8260D      Preparation Method: 5035A

Pace National - Mt. Juliet

Acetone	ND	mg/kg	0.0917	1	01/15/21 11:15	01/19/21 11:00	67-64-1	L0
Acrylonitrile	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	107-13-1	
Benzene	<b>0.0433</b>	mg/kg	0.00183	1	01/15/21 11:15	01/19/21 11:00	71-43-2	
Bromobenzene	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	75-27-4	
Bromoform	ND	mg/kg	0.0458	1	01/15/21 11:15	01/19/21 11:00	75-25-2	
Bromomethane	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	56-23-5	
Chlorobenzene	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	124-48-1	
Chloroethane	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	75-00-3	
Chloroform	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	67-66-3	
Chloromethane	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0458	1	01/15/21 11:15	01/19/21 11:00	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	106-93-4	
Dibromomethane	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	10061-02-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448  
Pace Project No.: 92516902

**Sample:** L2-South Wall      **Lab ID:** 92516902035      Collected: 01/15/21 11:15      Received: 01/15/21 12:20      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>		Analytical Method: EPA 8260D    Preparation Method: 5035A Pace National - Mt. Juliet						
2,2-Dichloropropane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	594-20-7	L0
Diisopropyl ether	ND	mg/kg	0.00183	1	01/15/21 11:15	01/19/21 11:00	108-20-3	
Ethylbenzene	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0458	1	01/15/21 11:15	01/19/21 11:00	87-68-3	C3
Isopropylbenzene (Cumene)	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.183	1	01/15/21 11:15	01/19/21 11:00	78-93-3	
Methylene Chloride	ND	mg/kg	0.0458	1	01/15/21 11:15	01/19/21 11:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0458	1	01/15/21 11:15	01/19/21 11:00	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00183	1	01/15/21 11:15	01/19/21 11:00	1634-04-4	
Naphthalene	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	103-65-1	
Styrene	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	127-18-4	
Toluene	<b>0.0766</b>	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	87-61-6	C3
1,2,4-Trichlorobenzene	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	120-82-1	C3
1,1,1-Trichloroethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	79-00-5	
Trichloroethene	ND	mg/kg	0.00183	1	01/15/21 11:15	01/19/21 11:00	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0229	1	01/15/21 11:15	01/19/21 11:00	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00917	1	01/15/21 11:15	01/19/21 11:00	108-67-8	
Vinyl chloride	ND	mg/kg	0.00458	1	01/15/21 11:15	01/19/21 11:00	75-01-4	
Xylene (Total)	<b>0.0247</b>	mg/kg	0.0119	1	01/15/21 11:15	01/19/21 11:00	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	98.4	%	75.0-131	1	01/15/21 11:15	01/19/21 11:00	2037-26-5	
4-Bromofluorobenzene (S)	99.2	%	67.0-138	1	01/15/21 11:15	01/19/21 11:00	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130	1	01/15/21 11:15	01/19/21 11:00	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G  
Pace National - Mt. Juliet

Total Solids	<b>79.8</b>	%		1	01/19/21 13:32	01/19/21 13:42		
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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

Sample: TB-1	Lab ID: 92516902036	Collected: 01/14/21 00:00	Received: 01/15/21 12:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		01/16/21 11:42	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/16/21 11:42	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/16/21 11:42	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/16/21 11:42	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/16/21 11:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/16/21 11:42	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/16/21 11:42	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/16/21 11:42	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/16/21 11:42	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/16/21 11:42	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/16/21 11:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/16/21 11:42	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/16/21 11:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/16/21 11:42	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/16/21 11:42	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/16/21 11:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/16/21 11:42	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/16/21 11:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/16/21 11:42	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/16/21 11:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/16/21 11:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/16/21 11:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/16/21 11:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/16/21 11:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/16/21 11:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/16/21 11:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/16/21 11:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/16/21 11:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/16/21 11:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/16/21 11:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/16/21 11:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/16/21 11:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/16/21 11:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/16/21 11:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/16/21 11:42	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/16/21 11:42	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/16/21 11:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/16/21 11:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/16/21 11:42	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/16/21 11:42	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/16/21 11:42	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/16/21 11:42	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/16/21 11:42	103-65-1	
Styrene	ND	ug/L	0.50	1		01/16/21 11:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/16/21 11:42	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/16/21 11:42	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2448

Pace Project No.: 92516902

Sample: TB-1	Lab ID: 92516902036	Collected: 01/14/21 00:00	Received: 01/15/21 12:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6200B MSV</b>		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		01/16/21 11:42	127-18-4	
Toluene	ND	ug/L	0.50	1		01/16/21 11:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/16/21 11:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/16/21 11:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/16/21 11:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/16/21 11:42	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/16/21 11:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/16/21 11:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/16/21 11:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/16/21 11:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/16/21 11:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/16/21 11:42	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/16/21 11:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/16/21 11:42	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		01/16/21 11:42	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		01/16/21 11:42	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/16/21 11:42	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448  
Pace Project No.: 92516902

QC Batch:	1607082	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92516902002, 92516902003, 92516902004, 92516902005, 92516902006, 92516902007, 92516902008, 92516902011, 92516902012, 92516902015, 92516902016, 92516902017

METHOD BLANK: R3613710-2 Matrix: Solid  
Associated Lab Samples: 92516902002, 92516902003, 92516902004, 92516902005, 92516902006, 92516902007, 92516902008, 92516902011, 92516902012, 92516902015, 92516902016, 92516902017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	01/18/21 04:34	
Aliphatic (C09-C12)	mg/kg	ND	5.00	01/18/21 04:34	
Aromatic (C09-C10), Unadjusted	mg/kg	ND	5.00	01/18/21 04:34	
Total VPH	mg/kg	ND	5.00	01/18/21 04:34	
2,5-Dibromotoluene (FID)	%	91.1	70.0-130	01/18/21 04:34	
2,5-Dibromotoluene (PID)	%	83.6	70.0-130	01/18/21 04:34	

Parameter	Units	R3613710-1		R3613710-3		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
Aliphatic (C05-C08)	mg/kg	60.0	69.3	68.3	116	114	70.0-130	1.45	25
Aliphatic (C09-C12)	mg/kg	70.0	81.5	78.3	116	112	70.0-130	4.01	25
Aromatic (C09-C10), Unadjusted	mg/kg	10.0	11.2	10.5	112	105	70.0-130	6.45	25
Total VPH	mg/kg	140	162	157	116	112	70.0-130	3.13	25
2,5-Dibromotoluene (FID)	%				101	92.8	70.0-130		
2,5-Dibromotoluene (PID)	%				93.6	87.8	70.0-130		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448  
Pace Project No.: 92516902

QC Batch: 1607571 Analysis Method: MADEP VPH  
QC Batch Method: MADEPV Analysis Description: MADEPV  
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902019, 92516902020, 92516902021, 92516902022, 92516902023, 92516902024, 92516902025, 92516902026, 92516902027, 92516902028

METHOD BLANK: R3614028-3 Matrix: Solid

Associated Lab Samples: 92516902019, 92516902020, 92516902021, 92516902022, 92516902023, 92516902024, 92516902025, 92516902026, 92516902027, 92516902028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	01/18/21 23:00	
Aliphatic (C09-C12)	mg/kg	ND	5.00	01/18/21 23:00	
Aromatic (C09-C10), Unadjusted	mg/kg	ND	5.00	01/18/21 23:00	
Total VPH	mg/kg	ND	5.00	01/18/21 23:00	
2,5-Dibromotoluene (FID)	%	89.3	70.0-130	01/18/21 23:00	
2,5-Dibromotoluene (PID)	%	81.2	70.0-130	01/18/21 23:00	

LABORATORY CONTROL SAMPLE & LCSD: R3614028-1 R3614028-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	60.0	63.9	67.0	107	112	70.0-130	4.74	25	
Aliphatic (C09-C12)	mg/kg	70.0	81.7	84.5	117	121	70.0-130	3.37	25	
Aromatic (C09-C10), Unadjusted	mg/kg	10.0	11.1	11.6	111	116	70.0-130	4.41	25	
Total VPH	mg/kg	140	157	163	112	116	70.0-130	3.75	25	
2,5-Dibromotoluene (FID)	%				98.0	101	70.0-130			
2,5-Dibromotoluene (PID)	%				92.1	95.4	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448  
Pace Project No.: 92516902

QC Batch: 1607581      Analysis Method: MADEP VPH  
QC Batch Method: MADEPV      Analysis Description: MADEPV  
Laboratory: Pace National - Mt. Juliet  
Associated Lab Samples: 92516902001, 92516902013, 92516902017

METHOD BLANK: R3614029-3      Matrix: Solid  
Associated Lab Samples: 92516902001, 92516902013, 92516902017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	01/18/21 23:00	
Aliphatic (C09-C12)	mg/kg	ND	5.00	01/18/21 23:00	
Aromatic (C09-C10), Unadjusted	mg/kg	ND	5.00	01/18/21 23:00	
Total VPH	mg/kg	ND	5.00	01/18/21 23:00	
2,5-Dibromotoluene (FID)	%	89.3	70.0-130	01/18/21 23:00	
2,5-Dibromotoluene (PID)	%	81.2	70.0-130	01/18/21 23:00	

Parameter	Units	R3614029-1		R3614029-2			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Aliphatic (C05-C08)	mg/kg	60.0	63.9	67.0	107	112	70.0-130	4.74	25	
Aliphatic (C09-C12)	mg/kg	70.0	81.7	84.5	117	121	70.0-130	3.37	25	
Aromatic (C09-C10), Unadjusted	mg/kg	10.0	11.1	11.6	111	116	70.0-130	4.41	25	
Total VPH	mg/kg	140	157	163	112	116	70.0-130	3.75	25	
2,5-Dibromotoluene (FID)	%				98.0	101	70.0-130			
2,5-Dibromotoluene (PID)	%				92.1	95.4	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448  
Pace Project No.: 92516902

QC Batch:	1608075	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92516902009, 92516902010, 92516902011, 92516902014, 92516902018, 92516902021, 92516902023, 92516902027

METHOD BLANK: R3614120-3 Matrix: Solid  
Associated Lab Samples: 92516902009, 92516902010, 92516902011, 92516902014, 92516902018, 92516902021, 92516902023, 92516902027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	01/19/21 18:24	
Aliphatic (C09-C12)	mg/kg	ND	5.00	01/19/21 18:24	
Aromatic (C09-C10), Unadjusted	mg/kg	ND	5.00	01/19/21 18:24	
Total VPH	mg/kg	ND	5.00	01/19/21 18:24	
2,5-Dibromotoluene (FID)	%	83.8	70.0-130	01/19/21 18:24	
2,5-Dibromotoluene (PID)	%	75.8	70.0-130	01/19/21 18:24	

Parameter	Units	R3614120-1		R3614120-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
Aliphatic (C05-C08)	mg/kg	60.0	66.0	58.5	110	97.5	70.0-130	12.0	25
Aliphatic (C09-C12)	mg/kg	70.0	78.6	75.6	112	108	70.0-130	3.89	25
Aromatic (C09-C10), Unadjusted	mg/kg	10.0	10.7	10.6	107	106	70.0-130	0.939	25
Total VPH	mg/kg	140	155	145	111	104	70.0-130	6.67	25
2,5-Dibromotoluene (FID)	%				93.4	90.8	70.0-130		
2,5-Dibromotoluene (PID)	%				86.4	84.2	70.0-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1608246

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902029, 92516902030, 92516902031, 92516902032, 92516902033, 92516902034, 92516902035

METHOD BLANK: R3614262-3

Matrix: Solid

Associated Lab Samples: 92516902029, 92516902030, 92516902031, 92516902032, 92516902033, 92516902034, 92516902035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	01/19/21 18:24	
Aliphatic (C09-C12)	mg/kg	ND	5.00	01/19/21 18:24	
Aromatic (C09-C10),Unadjusted	mg/kg	ND	5.00	01/19/21 18:24	
Total VPH	mg/kg	ND	5.00	01/19/21 18:24	
2,5-Dibromotoluene (FID)	%	83.8	70.0-130	01/19/21 18:24	
2,5-Dibromotoluene (PID)	%	75.8	70.0-130	01/19/21 18:24	

LABORATORY CONTROL SAMPLE & LCSD: R3614262-1 R3614262-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	60.0	66.0	58.5	110	97.5	70.0-130	12.0	25	
Aliphatic (C09-C12)	mg/kg	70.0	78.6	75.6	112	108	70.0-130	3.89	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	10.7	10.6	107	106	70.0-130	0.939	25	
Total VPH	mg/kg	140	155	145	111	104	70.0-130	6.67	25	
2,5-Dibromotoluene (FID)	%				93.4	90.8	70.0-130			
2,5-Dibromotoluene (PID)	%				86.4	84.2	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1606925

Analysis Method: EPA 8260D

QC Batch Method: 5035A

Analysis Description: VOA (GC/MS) 8260D

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902001, 92516902002, 92516902003, 92516902004, 92516902005, 92516902006, 92516902007, 92516902008, 92516902009, 92516902010, 92516902011, 92516902012, 92516902013, 92516902014

METHOD BLANK: R3613663-3

Matrix: Solid

Associated Lab Samples: 92516902001, 92516902002, 92516902003, 92516902004, 92516902005, 92516902006, 92516902007, 92516902008, 92516902009, 92516902010, 92516902011, 92516902012, 92516902013, 92516902014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	0.0500	01/17/21 06:34	
Acrylonitrile	mg/kg	ND	0.0125	01/17/21 06:34	
Benzene	mg/kg	ND	0.00100	01/17/21 06:34	
Bromobenzene	mg/kg	ND	0.0125	01/17/21 06:34	
Bromodichloromethane	mg/kg	ND	0.00250	01/17/21 06:34	
Bromoform	mg/kg	ND	0.0250	01/17/21 06:34	
Bromomethane	mg/kg	ND	0.0125	01/17/21 06:34	
n-Butylbenzene	mg/kg	ND	0.0125	01/17/21 06:34	
sec-Butylbenzene	mg/kg	ND	0.0125	01/17/21 06:34	
tert-Butylbenzene	mg/kg	ND	0.00500	01/17/21 06:34	
Carbon tetrachloride	mg/kg	ND	0.00500	01/17/21 06:34	
Chlorobenzene	mg/kg	ND	0.00250	01/17/21 06:34	
Dibromochloromethane	mg/kg	ND	0.00250	01/17/21 06:34	
Chloroethane	mg/kg	ND	0.00500	01/17/21 06:34	
Chloroform	mg/kg	ND	0.00250	01/17/21 06:34	
Chloromethane	mg/kg	ND	0.0125	01/17/21 06:34	
2-Chlorotoluene	mg/kg	ND	0.00250	01/17/21 06:34	
4-Chlorotoluene	mg/kg	ND	0.00500	01/17/21 06:34	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0250	01/17/21 06:34	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.00250	01/17/21 06:34	
Dibromomethane	mg/kg	ND	0.00500	01/17/21 06:34	
1,2-Dichlorobenzene	mg/kg	ND	0.00500	01/17/21 06:34	
1,3-Dichlorobenzene	mg/kg	ND	0.00500	01/17/21 06:34	
1,4-Dichlorobenzene	mg/kg	ND	0.00500	01/17/21 06:34	
Dichlorodifluoromethane	mg/kg	ND	0.00250	01/17/21 06:34	
1,1-Dichloroethane	mg/kg	ND	0.00250	01/17/21 06:34	
1,2-Dichloroethane	mg/kg	ND	0.00250	01/17/21 06:34	
1,1-Dichloroethene	mg/kg	ND	0.00250	01/17/21 06:34	
cis-1,2-Dichloroethene	mg/kg	ND	0.00250	01/17/21 06:34	
trans-1,2-Dichloroethene	mg/kg	ND	0.00500	01/17/21 06:34	
1,2-Dichloropropane	mg/kg	ND	0.00500	01/17/21 06:34	
1,1-Dichloropropene	mg/kg	ND	0.00250	01/17/21 06:34	
1,3-Dichloropropane	mg/kg	ND	0.00500	01/17/21 06:34	
cis-1,3-Dichloropropene	mg/kg	ND	0.00250	01/17/21 06:34	
trans-1,3-Dichloropropene	mg/kg	ND	0.00500	01/17/21 06:34	
2,2-Dichloropropane	mg/kg	ND	0.00250	01/17/21 06:34	
Diisopropyl ether	mg/kg	ND	0.00100	01/17/21 06:34	
Ethylbenzene	mg/kg	ND	0.00250	01/17/21 06:34	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0250	01/17/21 06:34	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

METHOD BLANK: R3613663-3

Matrix: Solid

Associated Lab Samples: 92516902001, 92516902002, 92516902003, 92516902004, 92516902005, 92516902006, 92516902007, 92516902008, 92516902009, 92516902010, 92516902011, 92516902012, 92516902013, 92516902014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	mg/kg	ND	0.00250	01/17/21 06:34	
p-Isopropyltoluene	mg/kg	ND	0.00500	01/17/21 06:34	
2-Butanone (MEK)	mg/kg	ND	0.100	01/17/21 06:34	
Methylene Chloride	mg/kg	ND	0.0250	01/17/21 06:34	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.0250	01/17/21 06:34	
Methyl-tert-butyl ether	mg/kg	ND	0.00100	01/17/21 06:34	
Naphthalene	mg/kg	ND	0.0125	01/17/21 06:34	
n-Propylbenzene	mg/kg	ND	0.00500	01/17/21 06:34	
Styrene	mg/kg	ND	0.0125	01/17/21 06:34	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.00250	01/17/21 06:34	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.00250	01/17/21 06:34	
Tetrachloroethene	mg/kg	ND	0.00250	01/17/21 06:34	
Toluene	mg/kg	ND	0.00500	01/17/21 06:34	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.00250	01/17/21 06:34	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0125	01/17/21 06:34	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0125	01/17/21 06:34	
1,1,1-Trichloroethane	mg/kg	ND	0.00250	01/17/21 06:34	
1,1,2-Trichloroethane	mg/kg	ND	0.00250	01/17/21 06:34	
Trichloroethene	mg/kg	ND	0.00100	01/17/21 06:34	
Trichlorofluoromethane	mg/kg	ND	0.00250	01/17/21 06:34	
1,2,3-Trichloropropane	mg/kg	ND	0.0125	01/17/21 06:34	
1,2,3-Trimethylbenzene	mg/kg	ND	0.00500	01/17/21 06:34	
1,2,4-Trimethylbenzene	mg/kg	ND	0.00500	01/17/21 06:34	
1,3,5-Trimethylbenzene	mg/kg	ND	0.00500	01/17/21 06:34	
Vinyl chloride	mg/kg	ND	0.00250	01/17/21 06:34	
Xylene (Total)	mg/kg	ND	0.00650	01/17/21 06:34	
Toluene-d8 (S)	%	102	75.0-131	01/17/21 06:34	
4-Bromofluorobenzene (S)	%	103	67.0-138	01/17/21 06:34	
1,2-Dichloroethane-d4 (S)	%	93.8	70.0-130	01/17/21 06:34	

LABORATORY CONTROL SAMPLE & LCSD: R3613663-1

R3613663-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	mg/kg	0.625	0.502	0.636	80.3	102	10.0-160	23.6	31	
Acrylonitrile	mg/kg	0.625	0.450	0.578	72.0	92.5	45.0-153	24.9	22	R1
Benzene	mg/kg	0.125	0.130	0.120	104	96.0	70.0-123	8.00	20	
Bromobenzene	mg/kg	0.125	0.129	0.123	103	98.4	73.0-121	4.76	20	
Bromodichloromethane	mg/kg	0.125	0.122	0.118	97.6	94.4	73.0-121	3.33	20	
Bromoform	mg/kg	0.125	0.118	0.124	94.4	99.2	64.0-132	4.96	20	
Bromomethane	mg/kg	0.125	0.134	0.117	107	93.6	56.0-147	13.5	20	
n-Butylbenzene	mg/kg	0.125	0.130	0.121	104	96.8	68.0-135	7.17	20	
sec-Butylbenzene	mg/kg	0.125	0.140	0.121	112	96.8	74.0-130	14.6	20	
tert-Butylbenzene	mg/kg	0.125	0.141	0.122	113	97.6	75.0-127	14.4	20	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE & LCSD: R3613663-1			R3613663-2								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Carbon tetrachloride	mg/kg	0.125	0.134	0.120	107	96.0	66.0-128	11.0	20		
Chlorobenzene	mg/kg	0.125	0.135	0.130	108	104	76.0-128	3.77	20		
Dibromochloromethane	mg/kg	0.125	0.125	0.124	100	99.2	74.0-127	0.803	20		
Chloroethane	mg/kg	0.125	0.136	0.113	109	90.4	61.0-134	18.5	20		
Chloroform	mg/kg	0.125	0.126	0.121	101	96.8	72.0-123	4.05	20		
Chloromethane	mg/kg	0.125	0.125	0.114	100	91.2	51.0-138	9.21	20		
2-Chlorotoluene	mg/kg	0.125	0.140	0.124	112	99.2	75.0-124	12.1	20		
4-Chlorotoluene	mg/kg	0.125	0.133	0.123	106	98.4	75.0-124	7.81	20		
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.0980	0.100	78.4	80.0	59.0-130	2.02	20		
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.129	0.126	103	101	74.0-128	2.35	20		
Dibromomethane	mg/kg	0.125	0.121	0.126	96.8	101	75.0-122	4.05	20		
1,2-Dichlorobenzene	mg/kg	0.125	0.132	0.131	106	105	76.0-124	0.760	20		
1,3-Dichlorobenzene	mg/kg	0.125	0.134	0.127	107	102	76.0-125	5.36	20		
1,4-Dichlorobenzene	mg/kg	0.125	0.127	0.126	102	101	77.0-121	0.791	20		
Dichlorodifluoromethane	mg/kg	0.125	0.114	0.119	91.2	95.2	43.0-156	4.29	20		
1,1-Dichloroethane	mg/kg	0.125	0.133	0.124	106	99.2	70.0-127	7.00	20		
1,2-Dichloroethane	mg/kg	0.125	0.115	0.113	92.0	90.4	65.0-131	1.75	20		
1,1-Dichloroethene	mg/kg	0.125	0.138	0.122	110	97.6	65.0-131	12.3	20		
cis-1,2-Dichloroethene	mg/kg	0.125	0.130	0.124	104	99.2	73.0-125	4.72	20		
trans-1,2-Dichloroethene	mg/kg	0.125	0.143	0.128	114	102	71.0-125	11.1	20		
1,2-Dichloropropane	mg/kg	0.125	0.134	0.128	107	102	74.0-125	4.58	20		
1,1-Dichloropropene	mg/kg	0.125	0.139	0.127	111	102	73.0-125	9.02	20		
1,3-Dichloropropane	mg/kg	0.125	0.129	0.124	103	99.2	80.0-125	3.95	20		
cis-1,3-Dichloropropene	mg/kg	0.125	0.126	0.123	101	98.4	76.0-127	2.41	20		
trans-1,3-Dichloropropene	mg/kg	0.125	0.125	0.120	100	96.0	73.0-127	4.08	20		
2,2-Dichloropropane	mg/kg	0.125	0.129	0.101	103	80.8	59.0-135	24.3	20	R1	
Diisopropyl ether	mg/kg	0.125	0.122	0.115	97.6	92.0	60.0-136	5.91	20		
Ethylbenzene	mg/kg	0.125	0.143	0.131	114	105	74.0-126	8.76	20		
Hexachloro-1,3-butadiene	mg/kg	0.125	0.157	0.143	126	114	57.0-150	9.33	20		
Isopropylbenzene (Cumene)	mg/kg	0.125	0.143	0.133	114	106	72.0-127	7.25	20		
p-Isopropyltoluene	mg/kg	0.125	0.140	0.126	112	101	72.0-133	10.5	20		
2-Butanone (MEK)	mg/kg	0.625	0.538	0.626	86.1	100	30.0-160	15.1	24		
Methylene Chloride	mg/kg	0.125	0.125	0.0975	100	78.0	68.0-123	24.7	20	R1	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.605	0.627	96.8	100	56.0-143	3.57	20		
Methyl-tert-butyl ether	mg/kg	0.125	0.123	0.125	98.4	100	66.0-132	1.61	20		
Naphthalene	mg/kg	0.125	0.103	0.103	82.4	82.4	59.0-130	0.00	20		
n-Propylbenzene	mg/kg	0.125	0.136	0.121	109	96.8	74.0-126	11.7	20		
Styrene	mg/kg	0.125	0.135	0.132	108	106	72.0-127	2.25	20		
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.128	0.121	102	96.8	74.0-129	5.62	20		
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.106	0.106	84.8	84.8	68.0-128	0.00	20		
Tetrachloroethene	mg/kg	0.125	0.148	0.137	118	110	70.0-136	7.72	20		
Toluene	mg/kg	0.125	0.136	0.124	109	99.2	75.0-121	9.23	20		
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.113	0.101	90.4	80.8	61.0-139	11.2	20		
1,2,3-Trichlorobenzene	mg/kg	0.125	0.127	0.115	102	92.0	59.0-139	9.92	20		
1,2,4-Trichlorobenzene	mg/kg	0.125	0.131	0.128	105	102	62.0-137	2.32	20		
1,1,1-Trichloroethane	mg/kg	0.125	0.143	0.124	114	99.2	69.0-126	14.2	20		
1,1,2-Trichloroethane	mg/kg	0.125	0.135	0.130	108	104	78.0-123	3.77	20		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE & LCSD: R3613663-1		R3613663-2									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Trichloroethene	mg/kg	0.125	0.150	0.134	120	107	76.0-126	11.3	20		
Trichlorofluoromethane	mg/kg	0.125	0.128	0.118	102	94.4	61.0-142	8.13	20		
1,2,3-Trichloropropane	mg/kg	0.125	0.118	0.115	94.4	92.0	67.0-129	2.58	20		
1,2,3-Trimethylbenzene	mg/kg	0.125	0.123	0.114	98.4	91.2	74.0-124	7.59	20		
1,2,4-Trimethylbenzene	mg/kg	0.125	0.133	0.123	106	98.4	70.0-126	7.81	20		
1,3,5-Trimethylbenzene	mg/kg	0.125	0.137	0.120	110	96.0	73.0-127	13.2	20		
Vinyl chloride	mg/kg	0.125	0.126	0.108	101	86.4	63.0-134	15.4	20		
Xylene (Total)	mg/kg	0.375	0.421	0.398	112	106	72.0-127	5.62	20		
Toluene-d8 (S)	%				101	102	75.0-131				
4-Bromofluorobenzene (S)	%				98.7	104	67.0-138				
1,2-Dichloroethane-d4 (S)	%				96.7	98.6	70.0-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3613663-4		R3613663-5								
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92516902008 Result	Spike Conc.	Spike Conc.	MS Result					
Acetone	mg/kg	ND	43.1	43.1	48.7	73.4	133	200	10.0-160	40.4 MH,R1
Acrylonitrile	mg/kg	ND	43.1	43.1	48.2	32.7	131	88.8	10.0-160	38.5
Benzene	mg/kg	23.7	8.61	8.61	27.2	23.3	47.5	0.00	10.0-149	15.3 ML
Bromobenzene	mg/kg	ND	8.61	8.61	7.54	7.15	103	97.3	10.0-156	5.26
Bromodichloromethane	mg/kg	ND	8.61	8.61	8.05	7.20	109	98.0	10.0-143	11.1
Bromoform	mg/kg	ND	8.61	8.61	8.50	7.40	116	101	10.0-146	13.8
Bromomethane	mg/kg	ND	8.61	8.61	7.73	6.44	105	87.6	10.0-149	18.1
n-Butylbenzene	mg/kg	10.9	8.61	8.61	16.6	14.5	77.3	48.5	10.0-160	13.7
sec-Butylbenzene	mg/kg	4.34	8.61	8.61	10.7	9.10	86.6	64.7	10.0-159	16.2
tert-Butylbenzene	mg/kg	ND	8.61	8.61	7.48	6.19	102	84.2	10.0-156	18.8
Carbon tetrachloride	mg/kg	ND	8.61	8.61	7.79	5.03	106	68.5	10.0-145	43.0 R1
Chlorobenzene	mg/kg	ND	8.61	8.61	8.31	6.64	113	90.3	10.0-152	22.3
Dibromochloromethane	mg/kg	ND	8.61	8.61	8.32	7.51	113	102	10.0-146	10.2
Chloroethane	mg/kg	ND	8.61	8.61	7.75	5.51	105	74.9	10.0-146	33.8
Chloroform	mg/kg	ND	8.61	8.61	9.11	7.02	124	95.4	10.0-146	26.0
Chloromethane	mg/kg	ND	8.61	8.61	7.50	5.28	102	71.9	10.0-159	34.7
2-Chlorotoluene	mg/kg	ND	8.61	8.61	7.44	6.32	101	85.9	10.0-159	16.3
4-Chlorotoluene	mg/kg	ND	8.61	8.61	7.61	6.43	104	87.5	10.0-155	16.9
1,2-Dibromo-3-chloropropane	mg/kg	ND	8.61	8.61	7.18	6.17	97.6	83.9	10.0-151	15.1
1,2-Dibromoethane (EDB)	mg/kg	ND	8.61	8.61	8.59	7.93	117	108	10.0-148	8.00
Dibromomethane	mg/kg	ND	8.61	8.61	7.90	6.74	107	91.7	10.0-147	15.8
1,2-Dichlorobenzene	mg/kg	ND	8.61	8.61	8.75	7.30	119	99.3	10.0-155	18.0
1,3-Dichlorobenzene	mg/kg	ND	8.61	8.61	8.49	6.98	115	94.9	10.0-153	19.5
1,4-Dichlorobenzene	mg/kg	ND	8.61	8.61	8.13	6.69	111	91.0	10.0-151	19.3
Dichlorodifluoromethane	mg/kg	ND	8.61	8.61	8.18	4.47	111	60.8	10.0-160	58.5 R1
1,1-Dichloroethane	mg/kg	ND	8.61	8.61	8.32	6.28	113	85.4	10.0-147	28.0
1,2-Dichloroethane	mg/kg	ND	8.61	8.61	6.94	5.97	94.4	81.2	10.0-148	15.1
1,1-Dichloroethene	mg/kg	ND	8.61	8.61	5.77	5.18	78.5	70.5	10.0-155	10.7
cis-1,2-Dichloroethene	mg/kg	ND	8.61	8.61	8.04	6.39	109	86.9	10.0-149	22.8

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

Parameter	Units	R3613663-4		R3613663-5		MS % Rec	MSD % Rec	% Rec	Limits	RPD	Qual
		92516902008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
trans-1,2-Dichloroethene	mg/kg	ND	8.61	8.61	8.32	6.04	113	82.2	10.0-150	31.7	
1,2-Dichloropropane	mg/kg	ND	8.61	8.61	9.08	7.42	124	101	10.0-148	20.2	
1,1-Dichloropropene	mg/kg	ND	8.61	8.61	8.36	5.32	114	72.4	10.0-153	44.4	R1
1,3-Dichloropropane	mg/kg	ND	8.61	8.61	7.95	7.53	108	102	10.0-154	5.48	
cis-1,3-Dichloropropene	mg/kg	ND	8.61	8.61	7.88	6.92	107	94.1	10.0-151	13.0	
trans-1,3-Dichloropropene	mg/kg	ND	8.61	8.61	7.83	7.38	106	100	10.0-148	5.90	
2,2-Dichloropropane	mg/kg	ND	8.61	8.61	6.68	3.64	90.8	49.5	10.0-138	58.9	R1
Diisopropyl ether	mg/kg	1.48	8.61	8.61	8.36	7.18	93.6	77.5	10.0-147	15.2	
Ethylbenzene	mg/kg	216	8.61	8.61	182	157	0.00	0.00	10.0-160	14.7	E,P6
Hexachloro-1,3-butadiene	mg/kg	ND	8.61	8.61	10.8	7.89	146	107	10.0-160	30.9	
Isopropylbenzene (Cumene)	mg/kg	16.5	8.61	8.61	22.1	17.4	76.3	13.6	10.0-155	23.3	
p-Isopropyltoluene	mg/kg	2.68	8.61	8.61	10.3	8.72	104	82.2	10.0-160	17.0	
2-Butanone (MEK)	mg/kg	ND	43.1	43.1	42.0	37.5	114	102	10.0-160	11.3	
Methylene Chloride	mg/kg	ND	8.61	8.61	4.31	5.75	58.6	78.1	10.0-141	28.5	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	43.1	43.1	40.0	35.6	109	96.9	10.0-160	11.5	
Methyl-tert-butyl ether	mg/kg	ND	8.61	8.61	8.30	7.13	113	96.9	11.0-147	15.2	
Naphthalene	mg/kg	27.3	8.61	8.61	37.9	33.5	144	84.7	10.0-160	12.2	
n-Propylbenzene	mg/kg	52.0	8.61	8.61	45.6	41.6	0.00	0.00	10.0-158	9.14	P6
Styrene	mg/kg	ND	8.61	8.61	9.00	7.17	122	97.5	10.0-160	22.7	
1,1,1,2-Tetrachloroethane	mg/kg	ND	8.61	8.61	8.00	6.69	109	91.0	10.0-149	17.8	
1,1,2,2-Tetrachloroethane	mg/kg	ND	8.61	8.61	6.37	6.53	86.6	88.8	10.0-160	2.51	
Tetrachloroethene	mg/kg	ND	8.61	8.61	9.10	6.11	124	83.1	10.0-156	39.3	R1
Toluene	mg/kg	304	8.61	8.61	272	265	0.00	0.00	10.0-156	2.32	E,P6
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	8.61	8.61	4.35	4.22	59.2	57.5	10.0-160	2.91	
1,2,3-Trichlorobenzene	mg/kg	ND	8.61	8.61	9.11	8.42	124	115	10.0-160	7.82	
1,2,4-Trichlorobenzene	mg/kg	ND	8.61	8.61	10.5	8.82	143	120	10.0-160	17.2	
1,1,1-Trichloroethane	mg/kg	ND	8.61	8.61	7.48	5.43	102	73.9	10.0-144	31.7	
1,1,2-Trichloroethane	mg/kg	ND	8.61	8.61	11.0	7.91	150	108	10.0-160	32.7	
Trichloroethene	mg/kg	ND	8.61	8.61	8.65	6.02	118	81.9	10.0-156	35.9	
Trichlorofluoromethane	mg/kg	ND	8.61	8.61	5.93	4.85	80.7	65.9	10.0-160	20.1	
1,2,3-Trichloropropane	mg/kg	ND	8.61	8.61	6.84	6.80	93.1	92.5	10.0-156	0.548	
1,2,3-Trimethylbenzene	mg/kg	73.7	8.61	8.61	67.4	61.8	0.00	0.00	10.0-160	8.68	P6
1,2,4-Trimethylbenzene	mg/kg	241	8.61	8.61	201	187	0.00	0.00	10.0-160	7.07	E,P6
1,3,5-Trimethylbenzene	mg/kg	68.3	8.61	8.61	59.1	54.8	0.00	0.00	10.0-160	7.44	P6
Vinyl chloride	mg/kg	ND	8.61	8.61	7.34	4.74	99.8	64.4	10.0-160	43.1	R1
Xylene (Total)	mg/kg	985	25.8	25.8	850	769	0.00	0.00	10.0-160	10.0	P6
Toluene-d8 (S)	%						99.4	103	75.0-131		
4-Bromofluorobenzene (S)	%						108	99.6	67.0-138		
1,2-Dichloroethane-d4 (S)	%						102	93.9	70.0-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607372

Analysis Method: EPA 8260D

QC Batch Method: 5035A

Analysis Description: VOA (GC/MS) 8260D

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902016, 92516902018, 92516902019

METHOD BLANK: R3613677-3

Matrix: Solid

Associated Lab Samples: 92516902016, 92516902018, 92516902019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	0.0500	01/18/21 11:06	
Acrylonitrile	mg/kg	ND	0.0125	01/18/21 11:06	
Benzene	mg/kg	ND	0.00100	01/18/21 11:06	
Bromobenzene	mg/kg	ND	0.0125	01/18/21 11:06	
Bromodichloromethane	mg/kg	ND	0.00250	01/18/21 11:06	
Bromoform	mg/kg	ND	0.0250	01/18/21 11:06	
Bromomethane	mg/kg	ND	0.0125	01/18/21 11:06	
n-Butylbenzene	mg/kg	ND	0.0125	01/18/21 11:06	
sec-Butylbenzene	mg/kg	ND	0.0125	01/18/21 11:06	
tert-Butylbenzene	mg/kg	ND	0.00500	01/18/21 11:06	
Carbon tetrachloride	mg/kg	ND	0.00500	01/18/21 11:06	
Chlorobenzene	mg/kg	ND	0.00250	01/18/21 11:06	
Dibromochloromethane	mg/kg	ND	0.00250	01/18/21 11:06	
Chloroethane	mg/kg	ND	0.00500	01/18/21 11:06	
Chloroform	mg/kg	ND	0.00250	01/18/21 11:06	
Chloromethane	mg/kg	ND	0.0125	01/18/21 11:06	
2-Chlorotoluene	mg/kg	ND	0.00250	01/18/21 11:06	
4-Chlorotoluene	mg/kg	ND	0.00500	01/18/21 11:06	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0250	01/18/21 11:06	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.00250	01/18/21 11:06	
Dibromomethane	mg/kg	ND	0.00500	01/18/21 11:06	
1,2-Dichlorobenzene	mg/kg	ND	0.00500	01/18/21 11:06	
1,3-Dichlorobenzene	mg/kg	ND	0.00500	01/18/21 11:06	
1,4-Dichlorobenzene	mg/kg	ND	0.00500	01/18/21 11:06	
Dichlorodifluoromethane	mg/kg	ND	0.00250	01/18/21 11:06	
1,1-Dichloroethane	mg/kg	ND	0.00250	01/18/21 11:06	
1,2-Dichloroethane	mg/kg	ND	0.00250	01/18/21 11:06	
1,1-Dichloroethene	mg/kg	ND	0.00250	01/18/21 11:06	
cis-1,2-Dichloroethene	mg/kg	ND	0.00250	01/18/21 11:06	
trans-1,2-Dichloroethene	mg/kg	ND	0.00500	01/18/21 11:06	
1,2-Dichloropropane	mg/kg	ND	0.00500	01/18/21 11:06	
1,1-Dichloropropene	mg/kg	ND	0.00250	01/18/21 11:06	
1,3-Dichloropropane	mg/kg	ND	0.00500	01/18/21 11:06	
cis-1,3-Dichloropropene	mg/kg	ND	0.00250	01/18/21 11:06	
trans-1,3-Dichloropropene	mg/kg	ND	0.00500	01/18/21 11:06	
2,2-Dichloropropane	mg/kg	ND	0.00250	01/18/21 11:06	
Diisopropyl ether	mg/kg	ND	0.00100	01/18/21 11:06	
Ethylbenzene	mg/kg	ND	0.00250	01/18/21 11:06	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0250	01/18/21 11:06	
Isopropylbenzene (Cumene)	mg/kg	ND	0.00250	01/18/21 11:06	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

METHOD BLANK: R3613677-3

Matrix: Solid

Associated Lab Samples: 92516902016, 92516902018, 92516902019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	mg/kg	ND	0.00500	01/18/21 11:06	
2-Butanone (MEK)	mg/kg	ND	0.100	01/18/21 11:06	
Methylene Chloride	mg/kg	ND	0.0250	01/18/21 11:06	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.0250	01/18/21 11:06	
Methyl-tert-butyl ether	mg/kg	ND	0.00100	01/18/21 11:06	
Naphthalene	mg/kg	ND	0.0125	01/18/21 11:06	
n-Propylbenzene	mg/kg	ND	0.00500	01/18/21 11:06	
Styrene	mg/kg	ND	0.0125	01/18/21 11:06	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.00250	01/18/21 11:06	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.00250	01/18/21 11:06	
Tetrachloroethene	mg/kg	ND	0.00250	01/18/21 11:06	
Toluene	mg/kg	ND	0.00500	01/18/21 11:06	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.00250	01/18/21 11:06	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0125	01/18/21 11:06	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0125	01/18/21 11:06	
1,1,1-Trichloroethane	mg/kg	ND	0.00250	01/18/21 11:06	
1,1,2-Trichloroethane	mg/kg	ND	0.00250	01/18/21 11:06	
Trichloroethene	mg/kg	ND	0.00100	01/18/21 11:06	
Trichlorofluoromethane	mg/kg	ND	0.00250	01/18/21 11:06	
1,2,3-Trichloropropane	mg/kg	ND	0.0125	01/18/21 11:06	
1,2,3-Trimethylbenzene	mg/kg	ND	0.00500	01/18/21 11:06	
1,2,4-Trimethylbenzene	mg/kg	ND	0.00500	01/18/21 11:06	
1,3,5-Trimethylbenzene	mg/kg	ND	0.00500	01/18/21 11:06	
Vinyl chloride	mg/kg	ND	0.00250	01/18/21 11:06	
Xylene (Total)	mg/kg	ND	0.00650	01/18/21 11:06	
Toluene-d8 (S)	%	101	75.0-131	01/18/21 11:06	
4-Bromofluorobenzene (S)	%	96.3	67.0-138	01/18/21 11:06	
1,2-Dichloroethane-d4 (S)	%	96.6	70.0-130	01/18/21 11:06	

LABORATORY CONTROL SAMPLE & LCSD: R3613677-1

R3613677-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	mg/kg	0.625	0.600	0.445	96.0	71.2	10.0-160	29.7	31	
Acrylonitrile	mg/kg	0.625	0.573	0.476	91.7	76.2	45.0-153	18.5	22	
Benzene	mg/kg	0.125	0.129	0.117	103	93.6	70.0-123	9.76	20	
Bromobenzene	mg/kg	0.125	0.126	0.122	101	97.6	73.0-121	3.23	20	
Bromodichloromethane	mg/kg	0.125	0.133	0.126	106	101	73.0-121	5.41	20	
Bromoform	mg/kg	0.125	0.142	0.136	114	109	64.0-132	4.32	20	
Bromomethane	mg/kg	0.125	0.162	0.157	130	126	56.0-147	3.13	20	
n-Butylbenzene	mg/kg	0.125	0.110	0.118	88.0	94.4	68.0-135	7.02	20	
sec-Butylbenzene	mg/kg	0.125	0.120	0.119	96.0	95.2	74.0-130	0.837	20	
tert-Butylbenzene	mg/kg	0.125	0.121	0.125	96.8	100	75.0-127	3.25	20	
Carbon tetrachloride	mg/kg	0.125	0.147	0.135	118	108	66.0-128	8.51	20	
Chlorobenzene	mg/kg	0.125	0.141	0.133	113	106	76.0-128	5.84	20	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE & LCSD: R3613677-1			R3613677-2								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Dibromochloromethane	mg/kg	0.125	0.139	0.130	111	104	74.0-127	6.69	20		
Chloroethane	mg/kg	0.125	0.147	0.151	118	121	61.0-134	2.68	20		
Chloroform	mg/kg	0.125	0.130	0.120	104	96.0	72.0-123	8.00	20		
Chloromethane	mg/kg	0.125	0.140	0.127	112	102	51.0-138	9.74	20		
2-Chlorotoluene	mg/kg	0.125	0.123	0.122	98.4	97.6	75.0-124	0.816	20		
4-Chlorotoluene	mg/kg	0.125	0.118	0.118	94.4	94.4	75.0-124	0.00	20		
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.107	0.109	85.6	87.2	59.0-130	1.85	20		
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.129	0.124	103	99.2	74.0-128	3.95	20		
Dibromomethane	mg/kg	0.125	0.139	0.123	111	98.4	75.0-122	12.2	20		
1,2-Dichlorobenzene	mg/kg	0.125	0.129	0.125	103	100	76.0-124	3.15	20		
1,3-Dichlorobenzene	mg/kg	0.125	0.127	0.127	102	102	76.0-125	0.00	20		
1,4-Dichlorobenzene	mg/kg	0.125	0.122	0.120	97.6	96.0	77.0-121	1.65	20		
Dichlorodifluoromethane	mg/kg	0.125	0.141	0.131	113	105	43.0-156	7.35	20		
1,1-Dichloroethane	mg/kg	0.125	0.132	0.125	106	100	70.0-127	5.45	20		
1,2-Dichloroethane	mg/kg	0.125	0.139	0.130	111	104	65.0-131	6.69	20		
1,1-Dichloroethene	mg/kg	0.125	0.129	0.127	103	102	65.0-131	1.56	20		
cis-1,2-Dichloroethene	mg/kg	0.125	0.124	0.121	99.2	96.8	73.0-125	2.45	20		
trans-1,2-Dichloroethene	mg/kg	0.125	0.133	0.124	106	99.2	71.0-125	7.00	20		
1,2-Dichloropropane	mg/kg	0.125	0.134	0.121	107	96.8	74.0-125	10.2	20		
1,1-Dichloropropene	mg/kg	0.125	0.133	0.129	106	103	73.0-125	3.05	20		
1,3-Dichloropropane	mg/kg	0.125	0.121	0.122	96.8	97.6	80.0-125	0.823	20		
cis-1,3-Dichloropropene	mg/kg	0.125	0.136	0.130	109	104	76.0-127	4.51	20		
trans-1,3-Dichloropropene	mg/kg	0.125	0.141	0.136	113	109	73.0-127	3.61	20		
2,2-Dichloropropane	mg/kg	0.125	0.147	0.132	118	106	59.0-135	10.8	20		
Diisopropyl ether	mg/kg	0.125	0.138	0.122	110	97.6	60.0-136	12.3	20		
Ethylbenzene	mg/kg	0.125	0.138	0.140	110	112	74.0-126	1.44	20		
Hexachloro-1,3-butadiene	mg/kg	0.125	0.107	0.146	85.6	117	57.0-150	30.8	20	R1	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.136	0.130	109	104	72.0-127	4.51	20		
p-Isopropyltoluene	mg/kg	0.125	0.115	0.120	92.0	96.0	72.0-133	4.26	20		
2-Butanone (MEK)	mg/kg	0.625	0.695	0.556	111	89.0	30.0-160	22.2	24		
Methylene Chloride	mg/kg	0.125	0.135	0.131	108	105	68.0-123	3.01	20		
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.620	0.592	99.2	94.7	56.0-143	4.62	20		
Methyl-tert-butyl ether	mg/kg	0.125	0.149	0.134	119	107	66.0-132	10.6	20		
Naphthalene	mg/kg	0.125	0.116	0.143	92.8	114	59.0-130	20.8	20	R1	
n-Propylbenzene	mg/kg	0.125	0.120	0.117	96.0	93.6	74.0-126	2.53	20		
Styrene	mg/kg	0.125	0.140	0.131	112	105	72.0-127	6.64	20		
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.146	0.128	117	102	74.0-129	13.1	20		
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.112	0.102	89.6	81.6	68.0-128	9.35	20		
Tetrachloroethene	mg/kg	0.125	0.125	0.120	100	96.0	70.0-136	4.08	20		
Toluene	mg/kg	0.125	0.123	0.121	98.4	96.8	75.0-121	1.64	20		
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.115	0.109	92.0	87.2	61.0-139	5.36	20		
1,2,3-Trichlorobenzene	mg/kg	0.125	0.105	0.134	84.0	107	59.0-139	24.3	20	R1	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.118	0.132	94.4	106	62.0-137	11.2	20		
1,1,1-Trichloroethane	mg/kg	0.125	0.141	0.139	113	111	69.0-126	1.43	20		
1,1,2-Trichloroethane	mg/kg	0.125	0.125	0.127	100	102	78.0-123	1.59	20		
Trichloroethene	mg/kg	0.125	0.128	0.126	102	101	76.0-126	1.57	20		
Trichlorofluoromethane	mg/kg	0.125	0.137	0.134	110	107	61.0-142	2.21	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE & LCSD: R3613677-1		R3613677-2									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,3-Trichloropropane	mg/kg	0.125	0.112	0.111	89.6	88.8	67.0-129	0.897	20		
1,2,3-Trimethylbenzene	mg/kg	0.125	0.118	0.118	94.4	94.4	74.0-124	0.00	20		
1,2,4-Trimethylbenzene	mg/kg	0.125	0.125	0.122	100	97.6	70.0-126	2.43	20		
1,3,5-Trimethylbenzene	mg/kg	0.125	0.124	0.126	99.2	101	73.0-127	1.60	20		
Vinyl chloride	mg/kg	0.125	0.131	0.130	105	104	63.0-134	0.766	20		
Xylene (Total)	mg/kg	0.375	0.414	0.391	110	104	72.0-127	5.71	20		
Toluene-d8 (S)	%				97.4	100	75.0-131				
4-Bromofluorobenzene (S)	%				105	104	67.0-138				
1,2-Dichloroethane-d4 (S)	%				105	104	70.0-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3613677-4		R3613677-5								
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92516902019 Result	Spike Conc.	Spike Conc.	MS Result					
Acetone	mg/kg	ND	104	104	134	130	164	160	10.0-160	2.52 MH
Acrylonitrile	mg/kg	ND	104	104	115	104	141	128	10.0-160	9.93
Benzene	mg/kg	43.4	20.9	20.9	79.6	73.1	222	182	10.0-149	8.51 MH
Bromobenzene	mg/kg	ND	20.9	20.9	19.9	14.0	122	85.9	10.0-156	34.9
Bromodichloromethane	mg/kg	ND	20.9	20.9	20.1	14.3	123	87.5	10.0-143	33.8
Bromoform	mg/kg	ND	20.9	20.9	22.5	17.5	138	107	10.0-146	24.9
Bromomethane	mg/kg	ND	20.9	20.9	20.1	11.0	123	67.6	10.0-149	58.3 R1
n-Butylbenzene	mg/kg	1.77	20.9	20.9	19.9	13.4	111	71.1	10.0-160	39.5
sec-Butylbenzene	mg/kg	ND	20.9	20.9	19.6	11.5	120	70.6	10.0-159	52.1 R1
tert-Butylbenzene	mg/kg	ND	20.9	20.9	18.4	10.6	113	65.0	10.0-156	53.9 R1
Carbon tetrachloride	mg/kg	ND	20.9	20.9	21.2	8.72	130	53.4	10.0-145	83.3 R1
Chlorobenzene	mg/kg	ND	20.9	20.9	20.1	13.5	123	82.7	10.0-152	39.3 R1
Dibromochloromethane	mg/kg	ND	20.9	20.9	19.9	16.5	122	101	10.0-146	19.1
Chloroethane	mg/kg	ND	20.9	20.9	20.2	10.0	124	61.6	10.0-146	67.3 R1
Chloroform	mg/kg	ND	20.9	20.9	19.6	11.6	120	71.0	10.0-146	51.6 R1
Chloromethane	mg/kg	ND	20.9	20.9	18.7	9.50	115	58.2	10.0-159	65.4 R1
2-Chlorotoluene	mg/kg	ND	20.9	20.9	19.5	12.5	119	76.8	10.0-159	43.5 R1
4-Chlorotoluene	mg/kg	ND	20.9	20.9	19.5	12.4	119	76.0	10.0-155	44.4 R1
1,2-Dibromo-3-chloropropane	mg/kg	ND	20.9	20.9	18.0	16.6	110	102	10.0-151	7.86
1,2-Dibromoethane (EDB)	mg/kg	ND	20.9	20.9	19.3	16.8	119	103	10.0-148	14.2
Dibromomethane	mg/kg	ND	20.9	20.9	20.4	16.5	125	101	10.0-147	21.3
1,2-Dichlorobenzene	mg/kg	ND	20.9	20.9	19.5	15.3	119	93.5	10.0-155	24.3
1,3-Dichlorobenzene	mg/kg	ND	20.9	20.9	20.1	13.8	123	84.8	10.0-153	36.9
1,4-Dichlorobenzene	mg/kg	ND	20.9	20.9	18.9	14.1	116	86.6	10.0-151	28.8
Dichlorodifluoromethane	mg/kg	ND	20.9	20.9	18.9	6.87	116	42.1	10.0-160	93.3 R1
1,1-Dichloroethane	mg/kg	ND	20.9	20.9	18.9	11.2	116	68.4	10.0-147	51.4 R1
1,2-Dichloroethane	mg/kg	ND	20.9	20.9	21.3	16.2	131	99.1	10.0-148	27.4
1,1-Dichloroethene	mg/kg	ND	20.9	20.9	20.1	8.13	123	49.8	10.0-155	84.8 R1
cis-1,2-Dichloroethene	mg/kg	ND	20.9	20.9	18.3	11.9	112	72.9	10.0-149	42.4 R1
trans-1,2-Dichloroethene	mg/kg	ND	20.9	20.9	18.7	9.50	115	58.2	10.0-150	65.4 R1
1,2-Dichloropropane	mg/kg	ND	20.9	20.9	20.4	14.1	125	86.7	10.0-148	36.2

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3613677-4			R3613677-5							
	Units	92516902019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloropropene	mg/kg	ND	20.9	20.9	20.1	8.51	123	52.1	10.0-153	81.0	R1
1,3-Dichloropropane	mg/kg	ND	20.9	20.9	18.7	14.8	115	90.7	10.0-154	23.4	
cis-1,3-Dichloropropene	mg/kg	ND	20.9	20.9	19.9	14.7	122	89.8	10.0-151	30.6	
trans-1,3-Dichloropropene	mg/kg	ND	20.9	20.9	21.2	16.8	130	103	10.0-148	23.1	
2,2-Dichloropropane	mg/kg	ND	20.9	20.9	20.2	8.91	124	54.6	10.0-138	77.7	R1
Diisopropyl ether	mg/kg	24.9	20.9	20.9	57.0	53.2	196	173	10.0-147	6.86	MH
Ethylbenzene	mg/kg	80.5	20.9	20.9	129	122	297	253	10.0-160	5.78	P6
Hexachloro-1,3-butadiene	mg/kg	ND	20.9	20.9	16.8	11.4	103	70.1	10.0-160	37.8	
Isopropylbenzene (Cumene)	mg/kg	3.34	20.9	20.9	24.6	15.0	130	71.7	10.0-155	48.4	R1
p-Isopropyltoluene	mg/kg	ND	20.9	20.9	21.0	13.4	129	82.4	10.0-160	43.9	R1
2-Butanone (MEK)	mg/kg	ND	104	104	128	117	157	144	10.0-160	8.76	
Methylene Chloride	mg/kg	ND	20.9	20.9	15.9	10.8	97.2	66.3	10.0-141	37.8	R1
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	104	104	103	92.9	127	114	10.0-160	10.5	
Methyl-tert-butyl ether	mg/kg	3.31	20.9	20.9	25.4	21.5	135	111	11.0-147	16.8	
Naphthalene	mg/kg	18.9	20.9	20.9	42.0	44.6	142	157	10.0-160	5.93	
n-Propylbenzene	mg/kg	10.2	20.9	20.9	32.3	25.4	135	92.8	10.0-158	24.1	
Styrene	mg/kg	ND	20.9	20.9	21.6	14.2	132	87.0	10.0-160	41.4	R1
1,1,1,2-Tetrachloroethane	mg/kg	ND	20.9	20.9	21.2	14.3	130	87.9	10.0-149	38.4	
1,1,2,2-Tetrachloroethane	mg/kg	ND	20.9	20.9	16.5	15.1	101	92.6	10.0-160	8.61	
Tetrachloroethene	mg/kg	ND	20.9	20.9	18.1	9.16	111	56.1	10.0-156	65.8	R1
Toluene	mg/kg	284	20.9	20.9	385	396	620	685	10.0-156	2.71	E,P6
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	20.9	20.9	17.4	6.60	106	40.5	10.0-160	89.9	R1
1,2,3-Trichlorobenzene	mg/kg	ND	20.9	20.9	22.2	20.1	136	123	10.0-160	10.0	
1,2,4-Trichlorobenzene	mg/kg	ND	20.9	20.9	16.8	13.8	103	84.8	10.0-160	19.2	
1,1,1-Trichloroethane	mg/kg	ND	20.9	20.9	21.8	9.05	133	55.5	10.0-144	82.5	R1
1,1,2-Trichloroethane	mg/kg	ND	20.9	20.9	21.0	17.4	129	106	10.0-160	18.9	
Trichloroethene	mg/kg	ND	20.9	20.9	18.9	9.29	116	56.9	10.0-156	68.1	R1
Trichlorofluoromethane	mg/kg	ND	20.9	20.9	20.9	7.27	128	44.5	10.0-160	96.6	R1
1,2,3-Trichloropropane	mg/kg	ND	20.9	20.9	18.0	15.9	110	97.2	10.0-156	12.5	
1,2,3-Trimethylbenzene	mg/kg	17.4	20.9	20.9	42.0	37.6	151	124	10.0-160	11.0	
1,2,4-Trimethylbenzene	mg/kg	62.4	20.9	20.9	105	103	258	247	10.0-160	1.75	MH
1,3,5-Trimethylbenzene	mg/kg	15.9	20.9	20.9	42.0	35.7	160	121	10.0-160	16.3	
Vinyl chloride	mg/kg	ND	20.9	20.9	19.2	7.75	118	47.5	10.0-160	84.9	R1
Xylene (Total)	mg/kg	470	62.5	62.5	675	669	421	409	10.0-160	0.899	P6
Toluene-d8 (S)	%						98.4	99.7	75.0-131		
4-Bromofluorobenzene (S)	%						100	100	67.0-138		
1,2-Dichloroethane-d4 (S)	%						109	105	70.0-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607518

Analysis Method: EPA 8260D

QC Batch Method: 5035A

Analysis Description: VOA (GC/MS) 8260D

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902008, 92516902011, 92516902013, 92516902014, 92516902015

METHOD BLANK: R3614034-3

Matrix: Solid

Associated Lab Samples: 92516902008, 92516902011, 92516902013, 92516902014, 92516902015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	0.0500	01/18/21 22:40	
Acrylonitrile	mg/kg	ND	0.0125	01/18/21 22:40	
Benzene	mg/kg	0.00123	0.00100	01/18/21 22:40	
Bromobenzene	mg/kg	ND	0.0125	01/18/21 22:40	
Bromodichloromethane	mg/kg	ND	0.00250	01/18/21 22:40	
Bromoform	mg/kg	ND	0.0250	01/18/21 22:40	
Bromomethane	mg/kg	ND	0.0125	01/18/21 22:40	
n-Butylbenzene	mg/kg	ND	0.0125	01/18/21 22:40	
sec-Butylbenzene	mg/kg	ND	0.0125	01/18/21 22:40	
tert-Butylbenzene	mg/kg	ND	0.00500	01/18/21 22:40	
Carbon tetrachloride	mg/kg	ND	0.00500	01/18/21 22:40	
Chlorobenzene	mg/kg	ND	0.00250	01/18/21 22:40	
Dibromochloromethane	mg/kg	ND	0.00250	01/18/21 22:40	
Chloroethane	mg/kg	ND	0.00500	01/18/21 22:40	
Chloroform	mg/kg	ND	0.00250	01/18/21 22:40	
Chloromethane	mg/kg	ND	0.0125	01/18/21 22:40	
2-Chlorotoluene	mg/kg	ND	0.00250	01/18/21 22:40	
4-Chlorotoluene	mg/kg	ND	0.00500	01/18/21 22:40	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0250	01/18/21 22:40	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.00250	01/18/21 22:40	
Dibromomethane	mg/kg	ND	0.00500	01/18/21 22:40	
1,2-Dichlorobenzene	mg/kg	ND	0.00500	01/18/21 22:40	
1,3-Dichlorobenzene	mg/kg	ND	0.00500	01/18/21 22:40	
1,4-Dichlorobenzene	mg/kg	ND	0.00500	01/18/21 22:40	
Dichlorodifluoromethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,1-Dichloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,2-Dichloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,1-Dichloroethene	mg/kg	ND	0.00250	01/18/21 22:40	
cis-1,2-Dichloroethene	mg/kg	ND	0.00250	01/18/21 22:40	
trans-1,2-Dichloroethene	mg/kg	ND	0.00500	01/18/21 22:40	
1,2-Dichloropropane	mg/kg	ND	0.00500	01/18/21 22:40	
1,1-Dichloropropene	mg/kg	ND	0.00250	01/18/21 22:40	
1,3-Dichloropropane	mg/kg	ND	0.00500	01/18/21 22:40	
cis-1,3-Dichloropropene	mg/kg	ND	0.00250	01/18/21 22:40	
trans-1,3-Dichloropropene	mg/kg	ND	0.00500	01/18/21 22:40	
2,2-Dichloropropane	mg/kg	ND	0.00250	01/18/21 22:40	
Diisopropyl ether	mg/kg	ND	0.00100	01/18/21 22:40	
Ethylbenzene	mg/kg	ND	0.00250	01/18/21 22:40	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0250	01/18/21 22:40	
Isopropylbenzene (Cumene)	mg/kg	ND	0.00250	01/18/21 22:40	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448  
Pace Project No.: 92516902

METHOD BLANK: R3614034-3 Matrix: Solid  
Associated Lab Samples: 92516902008, 92516902011, 92516902013, 92516902014, 92516902015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	mg/kg	ND	0.00500	01/18/21 22:40	
2-Butanone (MEK)	mg/kg	ND	0.100	01/18/21 22:40	
Methylene Chloride	mg/kg	ND	0.0250	01/18/21 22:40	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.0250	01/18/21 22:40	
Methyl-tert-butyl ether	mg/kg	ND	0.00100	01/18/21 22:40	
Naphthalene	mg/kg	ND	0.0125	01/18/21 22:40	
n-Propylbenzene	mg/kg	ND	0.00500	01/18/21 22:40	
Styrene	mg/kg	ND	0.0125	01/18/21 22:40	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
Tetrachloroethene	mg/kg	ND	0.00250	01/18/21 22:40	
Toluene	mg/kg	ND	0.00500	01/18/21 22:40	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0125	01/18/21 22:40	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0125	01/18/21 22:40	
1,1,1-Trichloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,1,2-Trichloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
Trichloroethene	mg/kg	ND	0.00100	01/18/21 22:40	
Trichlorofluoromethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,2,3-Trichloropropane	mg/kg	ND	0.0125	01/18/21 22:40	
1,2,3-Trimethylbenzene	mg/kg	ND	0.00500	01/18/21 22:40	
1,2,4-Trimethylbenzene	mg/kg	ND	0.00500	01/18/21 22:40	
1,3,5-Trimethylbenzene	mg/kg	ND	0.00500	01/18/21 22:40	
Vinyl chloride	mg/kg	ND	0.00250	01/18/21 22:40	
Xylene (Total)	mg/kg	ND	0.00650	01/18/21 22:40	
Toluene-d8 (S)	%	105	75.0-131	01/18/21 22:40	
4-Bromofluorobenzene (S)	%	101	67.0-138	01/18/21 22:40	
1,2-Dichloroethane-d4 (S)	%	101	70.0-130	01/18/21 22:40	

Parameter	Units	R3614034-1		R3614034-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec				
Acetone	mg/kg	0.625	0.569	0.688	91.0	110	10.0-160	18.9	31
Acrylonitrile	mg/kg	0.625	0.583	0.642	93.3	103	45.0-153	9.63	22
Benzene	mg/kg	0.125	0.109	0.104	87.2	83.2	70.0-123	4.69	20
Bromobenzene	mg/kg	0.125	0.120	0.120	96.0	96.0	73.0-121	0.00	20
Bromodichloromethane	mg/kg	0.125	0.122	0.120	97.6	96.0	73.0-121	1.65	20
Bromoform	mg/kg	0.125	0.137	0.138	110	110	64.0-132	0.727	20
Bromomethane	mg/kg	0.125	0.142	0.127	114	102	56.0-147	11.2	20
n-Butylbenzene	mg/kg	0.125	0.102	0.103	81.6	82.4	68.0-135	0.976	20
sec-Butylbenzene	mg/kg	0.125	0.109	0.112	87.2	89.6	74.0-130	2.71	20
tert-Butylbenzene	mg/kg	0.125	0.113	0.115	90.4	92.0	75.0-127	1.75	20
Carbon tetrachloride	mg/kg	0.125	0.123	0.124	98.4	99.2	66.0-128	0.810	20
Chlorobenzene	mg/kg	0.125	0.122	0.123	97.6	98.4	76.0-128	0.816	20

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE & LCSD: R3614034-1			R3614034-2								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Dibromochloromethane	mg/kg	0.125	0.130	0.131	104	105	74.0-127	0.766	20		
Chloroethane	mg/kg	0.125	0.123	0.123	98.4	98.4	61.0-134	0.00	20		
Chloroform	mg/kg	0.125	0.123	0.115	98.4	92.0	72.0-123	6.72	20		
Chloromethane	mg/kg	0.125	0.109	0.116	87.2	92.8	51.0-138	6.22	20		
2-Chlorotoluene	mg/kg	0.125	0.108	0.116	86.4	92.8	75.0-124	7.14	20		
4-Chlorotoluene	mg/kg	0.125	0.115	0.115	92.0	92.0	75.0-124	0.00	20		
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.112	0.109	89.6	87.2	59.0-130	2.71	20		
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.120	0.118	96.0	94.4	74.0-128	1.68	20		
Dibromomethane	mg/kg	0.125	0.128	0.117	102	93.6	75.0-122	8.98	20		
1,2-Dichlorobenzene	mg/kg	0.125	0.114	0.124	91.2	99.2	76.0-124	8.40	20		
1,3-Dichlorobenzene	mg/kg	0.125	0.123	0.122	98.4	97.6	76.0-125	0.816	20		
1,4-Dichlorobenzene	mg/kg	0.125	0.112	0.111	89.6	88.8	77.0-121	0.897	20		
Dichlorodifluoromethane	mg/kg	0.125	0.106	0.111	84.8	88.8	43.0-156	4.61	20		
1,1-Dichloroethane	mg/kg	0.125	0.115	0.111	92.0	88.8	70.0-127	3.54	20		
1,2-Dichloroethane	mg/kg	0.125	0.141	0.129	113	103	65.0-131	8.89	20		
1,1-Dichloroethene	mg/kg	0.125	0.116	0.114	92.8	91.2	65.0-131	1.74	20		
cis-1,2-Dichloroethene	mg/kg	0.125	0.108	0.110	86.4	88.0	73.0-125	1.83	20		
trans-1,2-Dichloroethene	mg/kg	0.125	0.114	0.108	91.2	86.4	71.0-125	5.41	20		
1,2-Dichloropropane	mg/kg	0.125	0.121	0.118	96.8	94.4	74.0-125	2.51	20		
1,1-Dichloropropene	mg/kg	0.125	0.115	0.113	92.0	90.4	73.0-125	1.75	20		
1,3-Dichloropropane	mg/kg	0.125	0.117	0.112	93.6	89.6	80.0-125	4.37	20		
cis-1,3-Dichloropropene	mg/kg	0.125	0.123	0.119	98.4	95.2	76.0-127	3.31	20		
trans-1,3-Dichloropropene	mg/kg	0.125	0.131	0.124	105	99.2	73.0-127	5.49	20		
2,2-Dichloropropane	mg/kg	0.125	0.122	0.127	97.6	102	59.0-135	4.02	20		
Diisopropyl ether	mg/kg	0.125	0.127	0.124	102	99.2	60.0-136	2.39	20		
Ethylbenzene	mg/kg	0.125	0.123	0.125	98.4	100	74.0-126	1.61	20		
Hexachloro-1,3-butadiene	mg/kg	0.125	0.119	0.114	95.2	91.2	57.0-150	4.29	20		
Isopropylbenzene (Cumene)	mg/kg	0.125	0.121	0.124	96.8	99.2	72.0-127	2.45	20		
p-Isopropyltoluene	mg/kg	0.125	0.107	0.109	85.6	87.2	72.0-133	1.85	20		
2-Butanone (MEK)	mg/kg	0.625	0.574	0.689	91.8	110	30.0-160	18.2	24		
Methylene Chloride	mg/kg	0.125	0.122	0.121	97.6	96.8	68.0-123	0.823	20		
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.629	0.646	101	103	56.0-143	2.67	20		
Methyl-tert-butyl ether	mg/kg	0.125	0.134	0.134	107	107	66.0-132	0.00	20		
Naphthalene	mg/kg	0.125	0.137	0.134	110	107	59.0-130	2.21	20		
n-Propylbenzene	mg/kg	0.125	0.106	0.104	84.8	83.2	74.0-126	1.90	20		
Styrene	mg/kg	0.125	0.125	0.126	100	101	72.0-127	0.797	20		
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.128	0.131	102	105	74.0-129	2.32	20		
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.109	0.114	87.2	91.2	68.0-128	4.48	20		
Tetrachloroethene	mg/kg	0.125	0.107	0.106	85.6	84.8	70.0-136	0.939	20		
Toluene	mg/kg	0.125	0.112	0.112	89.6	89.6	75.0-121	0.00	20		
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.108	0.101	86.4	80.8	61.0-139	6.70	20		
1,2,3-Trichlorobenzene	mg/kg	0.125	0.165	0.159	132	127	59.0-139	3.70	20		
1,2,4-Trichlorobenzene	mg/kg	0.125	0.120	0.114	96.0	91.2	62.0-137	5.13	20		
1,1,1-Trichloroethane	mg/kg	0.125	0.129	0.126	103	101	69.0-126	2.35	20		
1,1,2-Trichloroethane	mg/kg	0.125	0.125	0.122	100	97.6	78.0-123	2.43	20		
Trichloroethene	mg/kg	0.125	0.119	0.111	95.2	88.8	76.0-126	6.96	20		
Trichlorofluoromethane	mg/kg	0.125	0.113	0.117	90.4	93.6	61.0-142	3.48	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE & LCSD: R3614034-1			R3614034-2				% Rec Limits	RPD	Max RPD	Qualifiers
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
1,2,3-Trichloropropane	mg/kg	0.125	0.124	0.118	99.2	94.4	67.0-129	4.96	20	
1,2,3-Trimethylbenzene	mg/kg	0.125	0.108	0.112	86.4	89.6	74.0-124	3.64	20	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.117	0.111	93.6	88.8	70.0-126	5.26	20	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.113	0.118	90.4	94.4	73.0-127	4.33	20	
Vinyl chloride	mg/kg	0.125	0.109	0.109	87.2	87.2	63.0-134	0.00	20	
Xylene (Total)	mg/kg	0.375	0.357	0.364	95.2	97.1	72.0-127	1.94	20	
Toluene-d8 (S)	%				100	101	75.0-131			
4-Bromofluorobenzene (S)	%				103	105	67.0-138			
1,2-Dichloroethane-d4 (S)	%				109	110	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607606

Analysis Method: EPA 8260D

QC Batch Method: 5035A

Analysis Description: VOA (GC/MS) 8260D

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902017, 92516902020, 92516902021, 92516902022, 92516902023, 92516902024, 92516902025, 92516902026, 92516902027, 92516902028, 92516902029, 92516902030, 92516902031, 92516902032, 92516902033

METHOD BLANK: R3614035-3

Matrix: Solid

Associated Lab Samples: 92516902017, 92516902020, 92516902021, 92516902022, 92516902023, 92516902024, 92516902025, 92516902026, 92516902027, 92516902028, 92516902029, 92516902030, 92516902031, 92516902032, 92516902033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	0.0500	01/18/21 22:40	
Acrylonitrile	mg/kg	ND	0.0125	01/18/21 22:40	
Benzene	mg/kg	0.00123	0.00100	01/18/21 22:40	
Bromobenzene	mg/kg	ND	0.0125	01/18/21 22:40	
Bromodichloromethane	mg/kg	ND	0.00250	01/18/21 22:40	
Bromoform	mg/kg	ND	0.0250	01/18/21 22:40	
Bromomethane	mg/kg	ND	0.0125	01/18/21 22:40	
n-Butylbenzene	mg/kg	ND	0.0125	01/18/21 22:40	
sec-Butylbenzene	mg/kg	ND	0.0125	01/18/21 22:40	
tert-Butylbenzene	mg/kg	ND	0.00500	01/18/21 22:40	
Carbon tetrachloride	mg/kg	ND	0.00500	01/18/21 22:40	
Chlorobenzene	mg/kg	ND	0.00250	01/18/21 22:40	
Dibromochloromethane	mg/kg	ND	0.00250	01/18/21 22:40	
Chloroethane	mg/kg	ND	0.00500	01/18/21 22:40	
Chloroform	mg/kg	ND	0.00250	01/18/21 22:40	
Chloromethane	mg/kg	ND	0.0125	01/18/21 22:40	
2-Chlorotoluene	mg/kg	ND	0.00250	01/18/21 22:40	
4-Chlorotoluene	mg/kg	ND	0.00500	01/18/21 22:40	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0250	01/18/21 22:40	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.00250	01/18/21 22:40	
Dibromomethane	mg/kg	ND	0.00500	01/18/21 22:40	
1,2-Dichlorobenzene	mg/kg	ND	0.00500	01/18/21 22:40	
1,3-Dichlorobenzene	mg/kg	ND	0.00500	01/18/21 22:40	
1,4-Dichlorobenzene	mg/kg	ND	0.00500	01/18/21 22:40	
Dichlorodifluoromethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,1-Dichloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,2-Dichloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,1-Dichloroethene	mg/kg	ND	0.00250	01/18/21 22:40	
cis-1,2-Dichloroethene	mg/kg	ND	0.00250	01/18/21 22:40	
trans-1,2-Dichloroethene	mg/kg	ND	0.00500	01/18/21 22:40	
1,2-Dichloropropane	mg/kg	ND	0.00500	01/18/21 22:40	
1,1-Dichloropropene	mg/kg	ND	0.00250	01/18/21 22:40	
1,3-Dichloropropane	mg/kg	ND	0.00500	01/18/21 22:40	
cis-1,3-Dichloropropene	mg/kg	ND	0.00250	01/18/21 22:40	
trans-1,3-Dichloropropene	mg/kg	ND	0.00500	01/18/21 22:40	
2,2-Dichloropropane	mg/kg	ND	0.00250	01/18/21 22:40	
Diisopropyl ether	mg/kg	ND	0.00100	01/18/21 22:40	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

METHOD BLANK: R3614035-3

Matrix: Solid

Associated Lab Samples: 92516902017, 92516902020, 92516902021, 92516902022, 92516902023, 92516902024, 92516902025, 92516902026, 92516902027, 92516902028, 92516902029, 92516902030, 92516902031, 92516902032, 92516902033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/kg	ND	0.00250	01/18/21 22:40	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0250	01/18/21 22:40	
Isopropylbenzene (Cumene)	mg/kg	ND	0.00250	01/18/21 22:40	
p-Isopropyltoluene	mg/kg	ND	0.00500	01/18/21 22:40	
2-Butanone (MEK)	mg/kg	ND	0.100	01/18/21 22:40	
Methylene Chloride	mg/kg	ND	0.0250	01/18/21 22:40	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.0250	01/18/21 22:40	
Methyl-tert-butyl ether	mg/kg	ND	0.00100	01/18/21 22:40	
Naphthalene	mg/kg	ND	0.0125	01/18/21 22:40	
n-Propylbenzene	mg/kg	ND	0.00500	01/18/21 22:40	
Styrene	mg/kg	ND	0.0125	01/18/21 22:40	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
Tetrachloroethene	mg/kg	ND	0.00250	01/18/21 22:40	
Toluene	mg/kg	ND	0.00500	01/18/21 22:40	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0125	01/18/21 22:40	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0125	01/18/21 22:40	
1,1,1-Trichloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,1,2-Trichloroethane	mg/kg	ND	0.00250	01/18/21 22:40	
Trichloroethene	mg/kg	ND	0.00100	01/18/21 22:40	
Trichlorofluoromethane	mg/kg	ND	0.00250	01/18/21 22:40	
1,2,3-Trichloropropane	mg/kg	ND	0.0125	01/18/21 22:40	
1,2,3-Trimethylbenzene	mg/kg	ND	0.00500	01/18/21 22:40	
1,2,4-Trimethylbenzene	mg/kg	ND	0.00500	01/18/21 22:40	
1,3,5-Trimethylbenzene	mg/kg	ND	0.00500	01/18/21 22:40	
Vinyl chloride	mg/kg	ND	0.00250	01/18/21 22:40	
Xylene (Total)	mg/kg	ND	0.00650	01/18/21 22:40	
Toluene-d8 (S)	%	105	75.0-131	01/18/21 22:40	
4-Bromofluorobenzene (S)	%	101	67.0-138	01/18/21 22:40	
1,2-Dichloroethane-d4 (S)	%	101	70.0-130	01/18/21 22:40	

LABORATORY CONTROL SAMPLE & LCSD: R3614035-1

R3614035-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	mg/kg	0.625	0.569	0.688	91.0	110	10.0-160	18.9	31	
Acrylonitrile	mg/kg	0.625	0.583	0.642	93.3	103	45.0-153	9.63	22	
Benzene	mg/kg	0.125	0.109	0.104	87.2	83.2	70.0-123	4.69	20	
Bromobenzene	mg/kg	0.125	0.120	0.120	96.0	96.0	73.0-121	0.00	20	
Bromodichloromethane	mg/kg	0.125	0.122	0.120	97.6	96.0	73.0-121	1.65	20	
Bromoform	mg/kg	0.125	0.137	0.138	110	110	64.0-132	0.727	20	
Bromomethane	mg/kg	0.125	0.142	0.127	114	102	56.0-147	11.2	20	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE & LCSD: R3614035-1			R3614035-2								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
n-Butylbenzene	mg/kg	0.125	0.102	0.103	81.6	82.4	68.0-135	0.976	20		
sec-Butylbenzene	mg/kg	0.125	0.109	0.112	87.2	89.6	74.0-130	2.71	20		
tert-Butylbenzene	mg/kg	0.125	0.113	0.115	90.4	92.0	75.0-127	1.75	20		
Carbon tetrachloride	mg/kg	0.125	0.123	0.124	98.4	99.2	66.0-128	0.810	20		
Chlorobenzene	mg/kg	0.125	0.122	0.123	97.6	98.4	76.0-128	0.816	20		
Dibromochloromethane	mg/kg	0.125	0.130	0.131	104	105	74.0-127	0.766	20		
Chloroethane	mg/kg	0.125	0.123	0.123	98.4	98.4	61.0-134	0.00	20		
Chloroform	mg/kg	0.125	0.123	0.115	98.4	92.0	72.0-123	6.72	20		
Chloromethane	mg/kg	0.125	0.109	0.116	87.2	92.8	51.0-138	6.22	20		
2-Chlorotoluene	mg/kg	0.125	0.108	0.116	86.4	92.8	75.0-124	7.14	20		
4-Chlorotoluene	mg/kg	0.125	0.115	0.115	92.0	92.0	75.0-124	0.00	20		
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.112	0.109	89.6	87.2	59.0-130	2.71	20		
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.120	0.118	96.0	94.4	74.0-128	1.68	20		
Dibromomethane	mg/kg	0.125	0.128	0.117	102	93.6	75.0-122	8.98	20		
1,2-Dichlorobenzene	mg/kg	0.125	0.114	0.124	91.2	99.2	76.0-124	8.40	20		
1,3-Dichlorobenzene	mg/kg	0.125	0.123	0.122	98.4	97.6	76.0-125	0.816	20		
1,4-Dichlorobenzene	mg/kg	0.125	0.112	0.111	89.6	88.8	77.0-121	0.897	20		
Dichlorodifluoromethane	mg/kg	0.125	0.106	0.111	84.8	88.8	43.0-156	4.61	20		
1,1-Dichloroethane	mg/kg	0.125	0.115	0.111	92.0	88.8	70.0-127	3.54	20		
1,2-Dichloroethane	mg/kg	0.125	0.141	0.129	113	103	65.0-131	8.89	20		
1,1-Dichloroethene	mg/kg	0.125	0.116	0.114	92.8	91.2	65.0-131	1.74	20		
cis-1,2-Dichloroethene	mg/kg	0.125	0.108	0.110	86.4	88.0	73.0-125	1.83	20		
trans-1,2-Dichloroethene	mg/kg	0.125	0.114	0.108	91.2	86.4	71.0-125	5.41	20		
1,2-Dichloropropane	mg/kg	0.125	0.121	0.118	96.8	94.4	74.0-125	2.51	20		
1,1-Dichloropropene	mg/kg	0.125	0.115	0.113	92.0	90.4	73.0-125	1.75	20		
1,3-Dichloropropane	mg/kg	0.125	0.117	0.112	93.6	89.6	80.0-125	4.37	20		
cis-1,3-Dichloropropene	mg/kg	0.125	0.123	0.119	98.4	95.2	76.0-127	3.31	20		
trans-1,3-Dichloropropene	mg/kg	0.125	0.131	0.124	105	99.2	73.0-127	5.49	20		
2,2-Dichloropropane	mg/kg	0.125	0.122	0.127	97.6	102	59.0-135	4.02	20		
Diisopropyl ether	mg/kg	0.125	0.127	0.124	102	99.2	60.0-136	2.39	20		
Ethylbenzene	mg/kg	0.125	0.123	0.125	98.4	100	74.0-126	1.61	20		
Hexachloro-1,3-butadiene	mg/kg	0.125	0.119	0.114	95.2	91.2	57.0-150	4.29	20		
Isopropylbenzene (Cumene)	mg/kg	0.125	0.121	0.124	96.8	99.2	72.0-127	2.45	20		
p-Isopropyltoluene	mg/kg	0.125	0.107	0.109	85.6	87.2	72.0-133	1.85	20		
2-Butanone (MEK)	mg/kg	0.625	0.574	0.689	91.8	110	30.0-160	18.2	24		
Methylene Chloride	mg/kg	0.125	0.122	0.121	97.6	96.8	68.0-123	0.823	20		
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.629	0.646	101	103	56.0-143	2.67	20		
Methyl-tert-butyl ether	mg/kg	0.125	0.134	0.134	107	107	66.0-132	0.00	20		
Naphthalene	mg/kg	0.125	0.137	0.134	110	107	59.0-130	2.21	20		
n-Propylbenzene	mg/kg	0.125	0.106	0.104	84.8	83.2	74.0-126	1.90	20		
Styrene	mg/kg	0.125	0.125	0.126	100	101	72.0-127	0.797	20		
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.128	0.131	102	105	74.0-129	2.32	20		
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.109	0.114	87.2	91.2	68.0-128	4.48	20		
Tetrachloroethene	mg/kg	0.125	0.107	0.106	85.6	84.8	70.0-136	0.939	20		
Toluene	mg/kg	0.125	0.112	0.112	89.6	89.6	75.0-121	0.00	20		
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.108	0.101	86.4	80.8	61.0-139	6.70	20		
1,2,3-Trichlorobenzene	mg/kg	0.125	0.165	0.159	132	127	59.0-139	3.70	20		

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE & LCSD:		R3614035-1		R3614035-2							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.120	0.114	96.0	91.2	62.0-137	5.13	20		
1,1,1-Trichloroethane	mg/kg	0.125	0.129	0.126	103	101	69.0-126	2.35	20		
1,1,2-Trichloroethane	mg/kg	0.125	0.125	0.122	100	97.6	78.0-123	2.43	20		
Trichloroethene	mg/kg	0.125	0.119	0.111	95.2	88.8	76.0-126	6.96	20		
Trichlorofluoromethane	mg/kg	0.125	0.113	0.117	90.4	93.6	61.0-142	3.48	20		
1,2,3-Trichloropropane	mg/kg	0.125	0.124	0.118	99.2	94.4	67.0-129	4.96	20		
1,2,3-Trimethylbenzene	mg/kg	0.125	0.108	0.112	86.4	89.6	74.0-124	3.64	20		
1,2,4-Trimethylbenzene	mg/kg	0.125	0.117	0.111	93.6	88.8	70.0-126	5.26	20		
1,3,5-Trimethylbenzene	mg/kg	0.125	0.113	0.118	90.4	94.4	73.0-127	4.33	20		
Vinyl chloride	mg/kg	0.125	0.109	0.109	87.2	87.2	63.0-134	0.00	20		
Xylene (Total)	mg/kg	0.375	0.357	0.364	95.2	97.1	72.0-127	1.94	20		
Toluene-d8 (S)	%				100	101	75.0-131				
4-Bromofluorobenzene (S)	%				103	105	67.0-138				
1,2-Dichloroethane-d4 (S)	%				109	110	70.0-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		R3614035-4		R3614035-5								
Parameter	Units	L1306558-02		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	MSD Spike Conc.							
Acrylonitrile	mg/kg	ND	0.638	0.638	0.392	0.570	61.4	89.3	10.0-160	37.0		
Bromobenzene	mg/kg	ND	0.128	0.128	0.131	0.141	102	110	10.0-156	7.35		
Acetone	mg/kg	ND	0.638	0.638	0.258	0.286	40.4	44.8	10.0-160	10.3		
n-Butylbenzene	mg/kg	ND	0.128	0.128	0.119	0.114	93.0	89.1	10.0-160	4.29		
sec-Butylbenzene	mg/kg	ND	0.128	0.128	0.127	0.132	99.2	103	10.0-159	3.86		
tert-Butylbenzene	mg/kg	ND	0.128	0.128	0.135	0.139	105	109	10.0-156	2.92		
Benzene	mg/kg	0.000638	0.128	0.128	0.124	0.126	96.4	97.9	10.0-149	1.60		
Bromodichloromethane	mg/kg	ND	0.128	0.128	0.115	0.116	89.8	90.6	10.0-143	0.866		
Bromoform	mg/kg	ND	0.128	0.128	0.125	0.128	97.7	100	10.0-146	2.37		
Bromomethane	mg/kg	ND	0.128	0.128	0.134	0.141	105	110	10.0-149	5.09		
2-Chlorotoluene	mg/kg	ND	0.128	0.128	0.131	0.143	102	112	10.0-159	8.76		
4-Chlorotoluene	mg/kg	ND	0.128	0.128	0.124	0.129	96.9	101	10.0-155	3.95		
Carbon tetrachloride	mg/kg	ND	0.128	0.128	0.121	0.135	94.5	105	10.0-145	10.9		
Dibromomethane	mg/kg	ND	0.128	0.128	0.115	0.118	89.8	92.2	10.0-147	2.58		
Chlorobenzene	mg/kg	ND	0.128	0.128	0.134	0.142	105	111	10.0-152	5.80		
Dibromochloromethane	mg/kg	ND	0.128	0.128	0.129	0.130	101	102	10.0-146	0.772		
Chloroethane	mg/kg	ND	0.128	0.128	0.113	0.116	88.3	90.6	10.0-146	2.62		
Chloroform	mg/kg	ND	0.128	0.128	0.113	0.120	88.3	93.7	10.0-146	6.01		
Chloromethane	mg/kg	ND	0.128	0.128	0.119	0.123	93.0	96.1	10.0-159	3.31		
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.128	0.128	0.108	0.111	84.4	86.7	10.0-151	2.74		
1,2-Dibromoethane (EDB)	mg/kg	ND	0.128	0.128	0.128	0.135	100	105	10.0-148	5.32		
1,2-Dichlorobenzene	mg/kg	ND	0.128	0.128	0.131	0.128	102	100	10.0-155	2.32		
1,1-Dichloropropene	mg/kg	ND	0.128	0.128	0.126	0.131	98.4	102	10.0-153	3.89		
1,3-Dichlorobenzene	mg/kg	ND	0.128	0.128	0.133	0.132	104	103	10.0-153	0.755		
1,3-Dichloropropane	mg/kg	ND	0.128	0.128	0.126	0.126	98.4	98.4	10.0-154	0.00		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3614035-4			R3614035-5							
	Units	MS L1306558-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dichlorobenzene	mg/kg	ND	0.128	0.128	0.119	0.125	93.0	97.7	10.0-151	4.92	
Dichlorodifluoromethane	mg/kg	ND	0.128	0.128	0.115	0.124	89.8	96.9	10.0-160	7.53	
2,2-Dichloropropane	mg/kg	ND	0.128	0.128	0.0945	0.101	73.8	78.9	10.0-138	6.65	
1,1-Dichloroethane	mg/kg	ND	0.128	0.128	0.120	0.121	93.7	94.5	10.0-147	0.830	
1,2-Dichloroethane	mg/kg	ND	0.128	0.128	0.110	0.125	85.9	97.7	10.0-148	12.8	
Diisopropyl ether	mg/kg	ND	0.128	0.128	0.128	0.137	100	107	10.0-147	6.79	
1,1-Dichloroethene	mg/kg	ND	0.128	0.128	0.124	0.127	96.9	99.2	10.0-155	2.39	
cis-1,2-Dichloroethene	mg/kg	ND	0.128	0.128	0.120	0.121	93.7	94.5	10.0-149	0.830	
trans-1,2-Dichloroethene	mg/kg	ND	0.128	0.128	0.120	0.122	93.7	95.3	10.0-150	1.65	
1,2-Dichloropropane	mg/kg	ND	0.128	0.128	0.132	0.139	103	109	10.0-148	5.17	
Hexachloro-1,3-butadiene	mg/kg	ND	0.128	0.128	0.118	0.133	92.2	104	10.0-160	12.0	
cis-1,3-Dichloropropene	mg/kg	ND	0.128	0.128	0.127	0.133	99.2	104	10.0-151	4.62	
trans-1,3-Dichloropropene	mg/kg	ND	0.128	0.128	0.143	0.146	112	114	10.0-148	2.08	
p-Isopropyltoluene	mg/kg	ND	0.128	0.128	0.130	0.128	102	100	10.0-160	1.55	
Ethylbenzene	mg/kg	0.00076	0.128	0.128	0.139	0.141	108	110	10.0-160	1.43	
Naphthalene	mg/kg	ND	0.128	0.128	0.192	0.173	150	135	10.0-160	10.4	
n-Propylbenzene	mg/kg	ND	0.128	0.128	0.133	0.131	104	102	10.0-158	1.52	
Isopropylbenzene (Cumene)	mg/kg	ND	0.128	0.128	0.127	0.131	99.2	102	10.0-155	3.10	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.128	0.128	0.131	0.136	102	106	10.0-149	3.75	
2-Butanone (MEK)	mg/kg	ND	0.638	0.638	0.405	0.479	63.5	75.1	10.0-160	16.7	
Methylene Chloride	mg/kg	ND	0.128	0.128	0.0676	0.0843	52.8	65.9	10.0-141	22.0	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.638	0.638	0.555	0.602	87.0	94.4	10.0-160	8.12	
Methyl-tert-butyl ether	mg/kg	ND	0.128	0.128	0.111	0.122	86.7	95.3	11.0-147	9.44	
Styrene	mg/kg	ND	0.128	0.128	0.135	0.142	105	111	10.0-160	5.05	
1,2,3-Trichloropropane	mg/kg	ND	0.128	0.128	0.113	0.126	88.3	98.4	10.0-156	10.9	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.128	0.128	0.121	0.120	94.5	93.7	10.0-160	0.830	
1,2,3-Trimethylbenzene	mg/kg	ND	0.128	0.128	0.135	0.125	105	97.7	10.0-160	7.69	
1,2,4-Trimethylbenzene	mg/kg	ND	0.128	0.128	0.189	0.143	148	112	10.0-160	27.7	
Tetrachloroethene	mg/kg	ND	0.128	0.128	0.130	0.130	102	102	10.0-156	0.00	
1,3,5-Trimethylbenzene	mg/kg	ND	0.128	0.128	0.145	0.139	113	109	10.0-160	4.23	
Toluene	mg/kg	ND	0.128	0.128	0.152	0.146	119	114	10.0-156	4.03	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.128	0.128	0.0710	0.121	55.5	94.5	10.0-160	52.1	R1
1,2,3-Trichlorobenzene	mg/kg	ND	0.128	0.128	0.190	0.209	148	163	10.0-160	9.52	MH
1,2,4-Trichlorobenzene	mg/kg	ND	0.128	0.128	0.144	0.158	112	123	10.0-160	9.27	
1,1,1-Trichloroethane	mg/kg	ND	0.128	0.128	0.123	0.132	96.1	103	10.0-144	7.06	
1,1,2-Trichloroethane	mg/kg	ND	0.128	0.128	0.140	0.138	109	108	10.0-160	1.44	
Trichloroethene	mg/kg	ND	0.128	0.128	0.128	0.128	100	100	10.0-156	0.00	
Trichlorofluoromethane	mg/kg	0.00214	0.128	0.128	0.108	0.115	82.7	88.2	10.0-160	6.28	
Vinyl chloride	mg/kg	ND	0.128	0.128	0.130	0.131	102	102	10.0-160	0.766	
Xylene (Total)	mg/kg	0.00500	0.383	0.383	0.470	0.415	121	107	10.0-160	12.4	
Toluene-d8 (S)	%						106	107	75.0-131		
4-Bromofluorobenzene (S)	%						95.7	96.3	67.0-138		
1,2-Dichloroethane-d4 (S)	%						89.3	90.3	70.0-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607608

QC Batch Method: 5035A

Analysis Method: EPA 8260D

Analysis Description: VOA (GC/MS) 8260D

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902034, 92516902035

METHOD BLANK: R3614097-2

Matrix: Solid

Associated Lab Samples: 92516902034, 92516902035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	0.0500	01/19/21 09:17	
Acrylonitrile	mg/kg	ND	0.0125	01/19/21 09:17	
Benzene	mg/kg	ND	0.00100	01/19/21 09:17	
Bromobenzene	mg/kg	ND	0.0125	01/19/21 09:17	
Bromodichloromethane	mg/kg	ND	0.00250	01/19/21 09:17	
Bromoform	mg/kg	ND	0.0250	01/19/21 09:17	
Bromomethane	mg/kg	ND	0.0125	01/19/21 09:17	
n-Butylbenzene	mg/kg	ND	0.0125	01/19/21 09:17	
sec-Butylbenzene	mg/kg	ND	0.0125	01/19/21 09:17	
tert-Butylbenzene	mg/kg	ND	0.00500	01/19/21 09:17	
Carbon tetrachloride	mg/kg	ND	0.00500	01/19/21 09:17	
Chlorobenzene	mg/kg	ND	0.00250	01/19/21 09:17	
Dibromochloromethane	mg/kg	ND	0.00250	01/19/21 09:17	
Chloroethane	mg/kg	ND	0.00500	01/19/21 09:17	
Chloroform	mg/kg	ND	0.00250	01/19/21 09:17	
Chloromethane	mg/kg	ND	0.0125	01/19/21 09:17	
2-Chlorotoluene	mg/kg	ND	0.00250	01/19/21 09:17	
4-Chlorotoluene	mg/kg	ND	0.00500	01/19/21 09:17	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0250	01/19/21 09:17	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.00250	01/19/21 09:17	
Dibromomethane	mg/kg	ND	0.00500	01/19/21 09:17	
1,2-Dichlorobenzene	mg/kg	ND	0.00500	01/19/21 09:17	
1,3-Dichlorobenzene	mg/kg	ND	0.00500	01/19/21 09:17	
1,4-Dichlorobenzene	mg/kg	ND	0.00500	01/19/21 09:17	
Dichlorodifluoromethane	mg/kg	ND	0.00250	01/19/21 09:17	
1,1-Dichloroethane	mg/kg	ND	0.00250	01/19/21 09:17	
1,2-Dichloroethane	mg/kg	ND	0.00250	01/19/21 09:17	
1,1-Dichloroethene	mg/kg	ND	0.00250	01/19/21 09:17	
cis-1,2-Dichloroethene	mg/kg	ND	0.00250	01/19/21 09:17	
trans-1,2-Dichloroethene	mg/kg	ND	0.00500	01/19/21 09:17	
1,2-Dichloropropane	mg/kg	ND	0.00500	01/19/21 09:17	
1,1-Dichloropropene	mg/kg	ND	0.00250	01/19/21 09:17	
1,3-Dichloropropane	mg/kg	ND	0.00500	01/19/21 09:17	
cis-1,3-Dichloropropene	mg/kg	ND	0.00250	01/19/21 09:17	
trans-1,3-Dichloropropene	mg/kg	ND	0.00500	01/19/21 09:17	
2,2-Dichloropropane	mg/kg	ND	0.00250	01/19/21 09:17	
Diisopropyl ether	mg/kg	ND	0.00100	01/19/21 09:17	
Ethylbenzene	mg/kg	ND	0.00250	01/19/21 09:17	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0250	01/19/21 09:17	
Isopropylbenzene (Cumene)	mg/kg	ND	0.00250	01/19/21 09:17	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

METHOD BLANK: R3614097-2

Matrix: Solid

Associated Lab Samples: 92516902034, 92516902035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	mg/kg	ND	0.00500	01/19/21 09:17	
2-Butanone (MEK)	mg/kg	ND	0.100	01/19/21 09:17	
Methylene Chloride	mg/kg	ND	0.0250	01/19/21 09:17	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.0250	01/19/21 09:17	
Methyl-tert-butyl ether	mg/kg	ND	0.00100	01/19/21 09:17	
Naphthalene	mg/kg	ND	0.0125	01/19/21 09:17	
n-Propylbenzene	mg/kg	ND	0.00500	01/19/21 09:17	
Styrene	mg/kg	ND	0.0125	01/19/21 09:17	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.00250	01/19/21 09:17	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.00250	01/19/21 09:17	
Tetrachloroethene	mg/kg	ND	0.00250	01/19/21 09:17	
Toluene	mg/kg	ND	0.00500	01/19/21 09:17	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.00250	01/19/21 09:17	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0125	01/19/21 09:17	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0125	01/19/21 09:17	
1,1,1-Trichloroethane	mg/kg	ND	0.00250	01/19/21 09:17	
1,1,2-Trichloroethane	mg/kg	ND	0.00250	01/19/21 09:17	
Trichloroethene	mg/kg	ND	0.00100	01/19/21 09:17	
Trichlorofluoromethane	mg/kg	ND	0.00250	01/19/21 09:17	
1,2,3-Trichloropropane	mg/kg	ND	0.0125	01/19/21 09:17	
1,2,3-Trimethylbenzene	mg/kg	ND	0.00500	01/19/21 09:17	
1,2,4-Trimethylbenzene	mg/kg	ND	0.00500	01/19/21 09:17	
1,3,5-Trimethylbenzene	mg/kg	ND	0.00500	01/19/21 09:17	
Vinyl chloride	mg/kg	ND	0.00250	01/19/21 09:17	
Xylene (Total)	mg/kg	ND	0.00650	01/19/21 09:17	
Toluene-d8 (S)	%	97.8	75.0-131	01/19/21 09:17	
4-Bromofluorobenzene (S)	%	98.6	67.0-138	01/19/21 09:17	
1,2-Dichloroethane-d4 (S)	%	109	70.0-130	01/19/21 09:17	

LABORATORY CONTROL SAMPLE: R3614097-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	mg/kg	0.625	1.61	258	10.0-160	L0
Acrylonitrile	mg/kg	0.625	0.860	138	45.0-153	
Benzene	mg/kg	0.125	0.124	99.2	70.0-123	
Bromobenzene	mg/kg	0.125	0.113	90.4	73.0-121	
Bromodichloromethane	mg/kg	0.125	0.120	96.0	73.0-121	
Bromoform	mg/kg	0.125	0.108	86.4	64.0-132	
Bromomethane	mg/kg	0.125	0.132	106	56.0-147	
n-Butylbenzene	mg/kg	0.125	0.109	87.2	68.0-135	
sec-Butylbenzene	mg/kg	0.125	0.113	90.4	74.0-130	
tert-Butylbenzene	mg/kg	0.125	0.117	93.6	75.0-127	
Carbon tetrachloride	mg/kg	0.125	0.126	101	66.0-128	
Chlorobenzene	mg/kg	0.125	0.116	92.8	76.0-128	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE: R3614097-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	mg/kg	0.125	0.109	87.2	74.0-127	
Chloroethane	mg/kg	0.125	0.146	117	61.0-134	
Chloroform	mg/kg	0.125	0.140	112	72.0-123	
Chloromethane	mg/kg	0.125	0.129	103	51.0-138	
2-Chlorotoluene	mg/kg	0.125	0.112	89.6	75.0-124	
4-Chlorotoluene	mg/kg	0.125	0.118	94.4	75.0-124	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.110	88.0	59.0-130	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.105	84.0	74.0-128	
Dibromomethane	mg/kg	0.125	0.130	104	75.0-122	
1,2-Dichlorobenzene	mg/kg	0.125	0.108	86.4	76.0-124	
1,3-Dichlorobenzene	mg/kg	0.125	0.112	89.6	76.0-125	
1,4-Dichlorobenzene	mg/kg	0.125	0.111	88.8	77.0-121	
Dichlorodifluoromethane	mg/kg	0.125	0.111	88.8	43.0-156	
1,1-Dichloroethane	mg/kg	0.125	0.134	107	70.0-127	
1,2-Dichloroethane	mg/kg	0.125	0.150	120	65.0-131	
1,1-Dichloroethene	mg/kg	0.125	0.145	116	65.0-131	
cis-1,2-Dichloroethene	mg/kg	0.125	0.139	111	73.0-125	
trans-1,2-Dichloroethene	mg/kg	0.125	0.138	110	71.0-125	
1,2-Dichloropropane	mg/kg	0.125	0.123	98.4	74.0-125	
1,1-Dichloropropene	mg/kg	0.125	0.136	109	73.0-125	
1,3-Dichloropropane	mg/kg	0.125	0.106	84.8	80.0-125	
cis-1,3-Dichloropropene	mg/kg	0.125	0.118	94.4	76.0-127	
trans-1,3-Dichloropropene	mg/kg	0.125	0.106	84.8	73.0-127	
2,2-Dichloropropane	mg/kg	0.125	0.173	138	59.0-135	LO
Diisopropyl ether	mg/kg	0.125	0.127	102	60.0-136	
Ethylbenzene	mg/kg	0.125	0.114	91.2	74.0-126	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.0863	69.0	57.0-150	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.124	99.2	72.0-127	
p-Isopropyltoluene	mg/kg	0.125	0.107	85.6	72.0-133	
2-Butanone (MEK)	mg/kg	0.625	0.777	124	30.0-160	
Methylene Chloride	mg/kg	0.125	0.139	111	68.0-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.605	96.8	56.0-143	
Methyl-tert-butyl ether	mg/kg	0.125	0.155	124	66.0-132	
Naphthalene	mg/kg	0.125	0.107	85.6	59.0-130	
n-Propylbenzene	mg/kg	0.125	0.121	96.8	74.0-126	
Styrene	mg/kg	0.125	0.111	88.8	72.0-127	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.113	90.4	74.0-129	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.114	91.2	68.0-128	
Tetrachloroethene	mg/kg	0.125	0.123	98.4	70.0-136	
Toluene	mg/kg	0.125	0.113	90.4	75.0-121	
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.113	90.4	61.0-139	
1,2,3-Trichlorobenzene	mg/kg	0.125	0.0885	70.8	59.0-139	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.0893	71.4	62.0-137	
1,1,1-Trichloroethane	mg/kg	0.125	0.141	113	69.0-126	
1,1,2-Trichloroethane	mg/kg	0.125	0.105	84.0	78.0-123	
Trichloroethene	mg/kg	0.125	0.128	102	76.0-126	
Trichlorofluoromethane	mg/kg	0.125	0.132	106	61.0-142	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE: R3614097-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	0.125	0.124	99.2	67.0-129	
1,2,3-Trimethylbenzene	mg/kg	0.125	0.110	88.0	74.0-124	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.118	94.4	70.0-126	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.120	96.0	73.0-127	
Vinyl chloride	mg/kg	0.125	0.133	106	63.0-134	
Xylene (Total)	mg/kg	0.375	0.337	89.9	72.0-127	
Toluene-d8 (S)	%			94.9	75.0-131	
4-Bromofluorobenzene (S)	%			102	67.0-138	
1,2-Dichloroethane-d4 (S)	%			119	70.0-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607919

Analysis Method: EPA 8260D

QC Batch Method: 5035A

Analysis Description: VOA (GC/MS) 8260D

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902016

METHOD BLANK: R3614253-3

Matrix: Solid

Associated Lab Samples: 92516902016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	mg/kg	ND	0.00500	01/19/21 13:55	
Toluene-d8 (S)	%	106	75.0-131	01/19/21 13:55	
4-Bromofluorobenzene (S)	%	98.1	67.0-138	01/19/21 13:55	
1,2-Dichloroethane-d4 (S)	%	94.4	70.0-130	01/19/21 13:55	

LABORATORY CONTROL SAMPLE & LCSD: R3614253-1

R3614253-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Toluene	mg/kg	0.125	0.138	0.134	110	107	75.0-121	2.94	20	
Toluene-d8 (S)	%				106	102	75.0-131			
4-Bromofluorobenzene (S)	%				94.8	96.5	67.0-138			
1,2-Dichloroethane-d4 (S)	%				96.5	101	70.0-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1608104

Analysis Method: EPA 8260D

QC Batch Method: 5035A

Analysis Description: VOA (GC/MS) 8260D

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902017, 92516902020, 92516902021, 92516902022, 92516902023, 92516902024, 92516902027

METHOD BLANK: R3614296-3

Matrix: Solid

Associated Lab Samples: 92516902017, 92516902020, 92516902021, 92516902022, 92516902023, 92516902024, 92516902027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/kg	ND	0.00250	01/19/21 19:52	
Naphthalene	mg/kg	ND	0.0125	01/19/21 19:52	
Toluene	mg/kg	ND	0.00500	01/19/21 19:52	
1,2,4-Trimethylbenzene	mg/kg	ND	0.00500	01/19/21 19:52	
Xylene (Total)	mg/kg	ND	0.00650	01/19/21 19:52	
Toluene-d8 (S)	%	108	75.0-131	01/19/21 19:52	
4-Bromofluorobenzene (S)	%	106	67.0-138	01/19/21 19:52	
1,2-Dichloroethane-d4 (S)	%	93.7	70.0-130	01/19/21 19:52	

LABORATORY CONTROL SAMPLE & LCSD: R3614296-1

R3614296-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethylbenzene	mg/kg	0.125	0.121	0.121	96.8	96.8	74.0-126	0.00	20	
Naphthalene	mg/kg	0.125	0.104	0.108	83.2	86.4	59.0-130	3.77	20	
Toluene	mg/kg	0.125	0.121	0.119	96.8	95.2	75.0-121	1.67	20	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.108	0.0982	86.4	78.6	70.0-126	9.51	20	
Xylene (Total)	mg/kg	0.375	0.360	0.357	96.0	95.2	72.0-127	0.837	20	
Toluene-d8 (S)	%				104	104	75.0-131			
4-Bromofluorobenzene (S)	%				104	110	67.0-138			
1,2-Dichloroethane-d4 (S)	%				101	114	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2448  
Pace Project No.: 92516902

QC Batch: 593118 Analysis Method: SM 6200B  
QC Batch Method: SM 6200B Analysis Description: 6200B MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92516902036

METHOD BLANK: 3130416 Matrix: Water  
Associated Lab Samples: 92516902036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/16/21 11:06	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/16/21 11:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/16/21 11:06	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/16/21 11:06	
1,1-Dichloroethane	ug/L	ND	0.50	01/16/21 11:06	
1,1-Dichloroethene	ug/L	ND	0.50	01/16/21 11:06	
1,1-Dichloropropene	ug/L	ND	0.50	01/16/21 11:06	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/16/21 11:06	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/16/21 11:06	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/16/21 11:06	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/16/21 11:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/16/21 11:06	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/16/21 11:06	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/16/21 11:06	
1,2-Dichloroethane	ug/L	ND	0.50	01/16/21 11:06	
1,2-Dichloropropane	ug/L	ND	0.50	01/16/21 11:06	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/16/21 11:06	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/16/21 11:06	
1,3-Dichloropropane	ug/L	ND	0.50	01/16/21 11:06	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/16/21 11:06	
2,2-Dichloropropane	ug/L	ND	0.50	01/16/21 11:06	
2-Chlorotoluene	ug/L	ND	0.50	01/16/21 11:06	
4-Chlorotoluene	ug/L	ND	0.50	01/16/21 11:06	
Benzene	ug/L	ND	0.50	01/16/21 11:06	
Bromobenzene	ug/L	ND	0.50	01/16/21 11:06	
Bromochloromethane	ug/L	ND	0.50	01/16/21 11:06	
Bromodichloromethane	ug/L	ND	0.50	01/16/21 11:06	
Bromoform	ug/L	ND	0.50	01/16/21 11:06	
Bromomethane	ug/L	ND	5.0	01/16/21 11:06	
Carbon tetrachloride	ug/L	ND	0.50	01/16/21 11:06	
Chlorobenzene	ug/L	ND	0.50	01/16/21 11:06	
Chloroethane	ug/L	ND	1.0	01/16/21 11:06	
Chloroform	ug/L	ND	0.50	01/16/21 11:06	
Chloromethane	ug/L	ND	1.0	01/16/21 11:06	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/16/21 11:06	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/16/21 11:06	
Dibromochloromethane	ug/L	ND	0.50	01/16/21 11:06	
Dibromomethane	ug/L	ND	0.50	01/16/21 11:06	
Dichlorodifluoromethane	ug/L	ND	0.50	01/16/21 11:06	
Diisopropyl ether	ug/L	ND	0.50	01/16/21 11:06	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

METHOD BLANK: 3130416

Matrix: Water

Associated Lab Samples: 92516902036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/16/21 11:06	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/16/21 11:06	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/16/21 11:06	
m&p-Xylene	ug/L	ND	1.0	01/16/21 11:06	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/16/21 11:06	
Methylene Chloride	ug/L	ND	2.0	01/16/21 11:06	
n-Butylbenzene	ug/L	ND	0.50	01/16/21 11:06	
n-Propylbenzene	ug/L	ND	0.50	01/16/21 11:06	
Naphthalene	ug/L	ND	2.0	01/16/21 11:06	
o-Xylene	ug/L	ND	0.50	01/16/21 11:06	
sec-Butylbenzene	ug/L	ND	0.50	01/16/21 11:06	
Styrene	ug/L	ND	0.50	01/16/21 11:06	
tert-Butylbenzene	ug/L	ND	0.50	01/16/21 11:06	
Tetrachloroethene	ug/L	ND	0.50	01/16/21 11:06	
Toluene	ug/L	ND	0.50	01/16/21 11:06	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/16/21 11:06	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/16/21 11:06	
Trichloroethene	ug/L	ND	0.50	01/16/21 11:06	
Trichlorofluoromethane	ug/L	ND	1.0	01/16/21 11:06	
Vinyl chloride	ug/L	ND	1.0	01/16/21 11:06	
1,2-Dichloroethane-d4 (S)	%	93	70-130	01/16/21 11:06	
4-Bromofluorobenzene (S)	%	97	70-130	01/16/21 11:06	
Toluene-d8 (S)	%	99	70-130	01/16/21 11:06	

LABORATORY CONTROL SAMPLE: 3130417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.8	110	60-140	
1,1,1-Trichloroethane	ug/L	50	50.6	101	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.4	105	60-140	
1,1,2-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1-Dichloroethane	ug/L	50	48.5	97	60-140	
1,1-Dichloroethene	ug/L	50	52.1	104	60-140	
1,1-Dichloropropene	ug/L	50	49.4	99	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.8	110	60-140	
1,2,3-Trichloropropane	ug/L	50	50.2	100	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.4	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.6	105	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.9	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.6	109	60-140	
1,2-Dichlorobenzene	ug/L	50	52.0	104	60-140	
1,2-Dichloroethane	ug/L	50	48.9	98	60-140	
1,2-Dichloropropane	ug/L	50	51.5	103	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.8	108	60-140	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

LABORATORY CONTROL SAMPLE: 3130417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	55.2	110	60-140	
1,3-Dichloropropane	ug/L	50	52.4	105	60-140	
1,4-Dichlorobenzene	ug/L	50	51.3	103	60-140	
2,2-Dichloropropane	ug/L	50	55.4	111	60-140	
2-Chlorotoluene	ug/L	50	50.4	101	60-140	
4-Chlorotoluene	ug/L	50	52.8	106	60-140	
Benzene	ug/L	50	49.0	98	60-140	
Bromobenzene	ug/L	50	51.2	102	60-140	
Bromochloromethane	ug/L	50	54.3	109	60-140	
Bromodichloromethane	ug/L	50	49.5	99	60-140	
Bromoform	ug/L	50	57.9	116	60-140	
Bromomethane	ug/L	50	39.4	79	60-140	
Carbon tetrachloride	ug/L	50	51.0	102	60-140	
Chlorobenzene	ug/L	50	51.4	103	60-140	
Chloroethane	ug/L	50	40.9	82	60-140	
Chloroform	ug/L	50	47.2	94	60-140	
Chloromethane	ug/L	50	39.7	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	58.5	117	60-140	
Dibromomethane	ug/L	50	56.5	113	60-140	
Dichlorodifluoromethane	ug/L	50	51.3	103	60-140	
Diisopropyl ether	ug/L	50	43.4	87	60-140	
Ethylbenzene	ug/L	50	53.5	107	60-140	
Hexachloro-1,3-butadiene	ug/L	50	60.2	120	60-140	
Isopropylbenzene (Cumene)	ug/L	50	54.4	109	60-140	
m&p-Xylene	ug/L	100	109	109	60-140	
Methyl-tert-butyl ether	ug/L	50	48.5	97	60-140	
Methylene Chloride	ug/L	50	44.1	88	60-140	
n-Butylbenzene	ug/L	50	54.5	109	60-140	
n-Propylbenzene	ug/L	50	53.7	107	60-140	
Naphthalene	ug/L	50	53.6	107	60-140	
o-Xylene	ug/L	50	50.5	101	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	44.7	89	60-140	
Tetrachloroethene	ug/L	50	55.4	111	60-140	
Toluene	ug/L	50	52.1	104	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.4	101	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.5	111	60-140	
Trichloroethene	ug/L	50	53.5	107	60-140	
Trichlorofluoromethane	ug/L	50	50.2	100	60-140	
Vinyl chloride	ug/L	50	47.8	96	60-140	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3131146 3131147											
Parameter	92516479001		MS	MSD	MS		MSD		% Rec		Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	2500	2500	2760	2760	110	110	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	2500	2500	2590	2570	103	103	60-140	0	
1,1,2,2-Tetrachloroethane	ug/L	ND	2500	2500	2470	2550	99	102	60-140	3	
1,1,2-Trichloroethane	ug/L	ND	2500	2500	2640	2560	105	102	60-140	3	
1,1-Dichloroethane	ug/L	ND	2500	2500	2380	2370	95	95	60-140	0	
1,1-Dichloroethene	ug/L	ND	2500	2500	2660	2660	106	106	60-140	0	
1,1-Dichloropropene	ug/L	ND	2500	2500	2650	2640	106	106	60-140	0	
1,2,3-Trichlorobenzene	ug/L	ND	2500	2500	2440	2740	98	110	60-140	11	
1,2,3-Trichloropropane	ug/L	ND	2500	2500	2460	2550	98	102	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	2500	2500	2530	2780	101	111	60-140	10	
1,2,4-Trimethylbenzene	ug/L	1500	2500	2500	4210	4160	108	107	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	2500	2500	2660	2850	106	114	60-140	7	
1,2-Dibromoethane (EDB)	ug/L	ND	2500	2500	2660	2780	106	111	60-140	5	
1,2-Dichlorobenzene	ug/L	ND	2500	2500	2570	2600	103	104	60-140	1	
1,2-Dichloroethane	ug/L	ND	2500	2500	2440	2460	97	99	60-140	1	
1,2-Dichloropropane	ug/L	ND	2500	2500	2570	2530	103	101	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	2500	2500	3310	3280	132	131	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	2500	2500	2700	2720	108	109	60-140	1	
1,3-Dichloropropane	ug/L	ND	2500	2500	2630	2620	105	105	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	2500	2500	2540	2570	102	103	60-140	1	
2,2-Dichloropropane	ug/L	ND	2500	2500	2410	2360	96	94	60-140	2	
2-Chlorotoluene	ug/L	ND	2500	2500	2650	2640	106	105	60-140	1	
4-Chlorotoluene	ug/L	ND	2500	2500	2600	2600	104	104	60-140	0	
Benzene	ug/L	2190	2500	2500	4710	4640	101	98	60-140	2	
Bromobenzene	ug/L	ND	2500	2500	2660	2640	106	106	60-140	1	
Bromochloromethane	ug/L	ND	2500	2500	2640	2720	105	109	60-140	3	
Bromodichloromethane	ug/L	ND	2500	2500	2490	2500	100	100	60-140	0	
Bromoform	ug/L	ND	2500	2500	2820	2860	113	114	60-140	1	
Bromomethane	ug/L	ND	2500	2500	1660	1870	66	75	60-140	12	
Carbon tetrachloride	ug/L	ND	2500	2500	2850	2780	114	111	60-140	2	
Chlorobenzene	ug/L	ND	2500	2500	2630	2650	105	106	60-140	1	
Chloroethane	ug/L	ND	2500	2500	2580	2470	103	99	60-140	4	
Chloroform	ug/L	ND	2500	2500	2390	2360	96	95	60-140	1	
Chloromethane	ug/L	ND	2500	2500	1610	1710	64	69	60-140	6	
cis-1,2-Dichloroethene	ug/L	ND	2500	2500	2310	2310	92	92	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	2500	2500	2730	2710	109	108	60-140	1	
Dibromochloromethane	ug/L	ND	2500	2500	2880	2890	115	116	60-140	0	
Dibromomethane	ug/L	ND	2500	2500	2970	2950	119	118	60-140	1	
Dichlorodifluoromethane	ug/L	ND	2500	2500	2380	2300	95	92	60-140	3	
Diisopropyl ether	ug/L	ND	2500	2500	2020	1990	80	79	60-140	2	
Ethylbenzene	ug/L	2780	2500	2500	5490	5450	108	107	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	2500	2500	2920	3120	117	125	60-140	7	
Isopropylbenzene (Cumene)	ug/L	80.9	2500	2500	2880	2920	112	113	60-140	1	
m&p-Xylene	ug/L	6270	5000	5000	11700	11700	110	109	60-140	0	
Methyl-tert-butyl ether	ug/L	5140	2500	2500	7380	7310	89	87	60-140	1	
Methylene Chloride	ug/L	ND	2500	2500	2180	2110	87	85	60-140	3	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3131146 3131147												
Parameter	Units	92516479001		MS	MSD	MS		MSD		% Rec	RPD	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec			
n-Butylbenzene	ug/L	ND	2500	2500	2500	2560	2650	102	106	60-140	3	
n-Propylbenzene	ug/L	ND	2500	2500	2500	2870	2870	115	115	60-140	0	
Naphthalene	ug/L	696	2500	2500	2500	3040	3350	94	106	60-140	10	
o-Xylene	ug/L	4640	2500	2500	2500	7180	7090	102	98	60-140	1	
sec-Butylbenzene	ug/L	ND	2500	2500	2500	2750	2740	110	110	60-140	0	
Styrene	ug/L	ND	2500	2500	2500	2670	2680	107	107	60-140	0	
tert-Butylbenzene	ug/L	ND	2500	2500	2500	2350	2310	94	92	60-140	2	
Tetrachloroethene	ug/L	ND	2500	2500	2500	2830	2920	113	117	60-140	3	
Toluene	ug/L	15600	2500	2500	2500	18100	17800	102	87	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	2500	2500	2500	2500	2430	100	97	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	2500	2500	2500	2650	2650	106	106	60-140	0	
Trichloroethene	ug/L	ND	2500	2500	2500	2860	2820	114	113	60-140	1	
Trichlorofluoromethane	ug/L	ND	2500	2500	2500	2820	2780	113	111	60-140	1	
Vinyl chloride	ug/L	ND	2500	2500	2500	2280	2270	91	91	60-140	1	
1,2-Dichloroethane-d4 (S)	%							96	93	70-130		
4-Bromofluorobenzene (S)	%							97	98	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: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607228

Analysis Method: SM 2540G

QC Batch Method: SM 2540 G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902001

METHOD BLANK: R3614216-1

Matrix: Solid

Associated Lab Samples: 92516902001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		01/19/21 12:15	

LABORATORY CONTROL SAMPLE: R3614216-2

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

SAMPLE DUPLICATE: R3614216-3

Parameter	Units	L1307247-01 Result	Dup Result	RPD	Qualifiers
Total Solids	%	95.0	95.4	0.369	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607229

Analysis Method: SM 2540G

QC Batch Method: SM 2540 G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902002, 92516902003, 92516902004, 92516902005, 92516902006, 92516902007, 92516902008, 92516902009, 92516902010, 92516902011

METHOD BLANK: R3614209-1

Matrix: Solid

Associated Lab Samples: 92516902002, 92516902003, 92516902004, 92516902005, 92516902006, 92516902007, 92516902008, 92516902009, 92516902010, 92516902011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		01/19/21 10:58	

LABORATORY CONTROL SAMPLE: R3614209-2

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

SAMPLE DUPLICATE: R3614209-3

Parameter	Units	92516902002 Result	Dup Result	RPD	Qualifiers
Total Solids	%	89.4	86.6	3.20	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607230

Analysis Method: SM 2540G

QC Batch Method: SM 2540 G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902012, 92516902013, 92516902014, 92516902015, 92516902016, 92516902017, 92516902018, 92516902019, 92516902020, 92516902021

METHOD BLANK: R3614206-1

Matrix: Solid

Associated Lab Samples: 92516902012, 92516902013, 92516902014, 92516902015, 92516902016, 92516902017, 92516902018, 92516902019, 92516902020, 92516902021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		01/19/21 10:42	

LABORATORY CONTROL SAMPLE: R3614206-2

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

SAMPLE DUPLICATE: R3614206-3

Parameter	Units	92516902012 Result	Dup Result	RPD	Qualifiers
Total Solids	%	73.9	72.1	2.43	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607231

Analysis Method: SM 2540G

QC Batch Method: SM 2540 G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902022, 92516902023, 92516902024, 92516902025, 92516902026, 92516902027, 92516902028, 92516902029, 92516902030, 92516902031

METHOD BLANK: R3614204-1

Matrix: Solid

Associated Lab Samples: 92516902022, 92516902023, 92516902024, 92516902025, 92516902026, 92516902027, 92516902028, 92516902029, 92516902030, 92516902031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		01/19/21 10:11	

LABORATORY CONTROL SAMPLE: R3614204-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	99.9	85.0-115	

SAMPLE DUPLICATE: R3614204-3

Parameter	Units	92516902022 Result	Dup Result	RPD	Qualifiers
Total Solids	%	75.6	75.2	0.429	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607395

Analysis Method: SM 2540G

QC Batch Method: SM 2540 G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902032

METHOD BLANK: R3613834-1

Matrix: Solid

Associated Lab Samples: 92516902032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	ND		01/18/21 13:22	

LABORATORY CONTROL SAMPLE: R3613834-2

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

SAMPLE DUPLICATE: R3613834-3

Parameter	Units	92516902032 Result	Dup Result	RPD	Qualifiers
Total Solids	%	82.8	83.0	0.148	

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### QUALITY CONTROL DATA

Project: 2020-L1-2448

Pace Project No.: 92516902

QC Batch: 1607396	Analysis Method: SM 2540G
QC Batch Method: SM 2540 G	Analysis Description: Total Solids 2540 G-2011
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92516902033, 92516902034, 92516902035

METHOD BLANK: R3614224-1 Matrix: Solid

Associated Lab Samples: 92516902033, 92516902034, 92516902035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		01/19/21 13:42	

LABORATORY CONTROL SAMPLE: R3614224-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	99.9	85.0-115	

SAMPLE DUPLICATE: R3614224-3

Parameter	Units	L1307416-02 Result	Dup Result	RPD	Qualifiers
Total Solids	%	96.0	95.8	0.127	

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## QUALIFIERS

Project: 2020-L1-2448

Pace Project No.: 92516902

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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.

### SAMPLE QUALIFIERS

Sample: 92516902006

[1] Volatile Organic Compounds (GC/MS) by Method 8260D - Dilution due to limited sample volume.

Sample: 92516902015

[1] Volatile Organic Compounds (GC/MS) by Method 8260D - Non-target compounds too high to run at a lower dilution.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

C3 The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

C4 The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

MH Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2448  
Pace Project No.: 92516902

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### ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448

Pace Project No.: 92516902

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92516902001	L2-North Wall	MADEPV	1607581	MADEP VPH	1607581
92516902002	L2-0-B	MADEPV	1607082	MADEP VPH	1607082
92516902003	L2-0-E	MADEPV	1607082	MADEP VPH	1607082
92516902004	L2-0-W	MADEPV	1607082	MADEP VPH	1607082
92516902005	L2-25-B	MADEPV	1607082	MADEP VPH	1607082
92516902006	L2-25-E	MADEPV	1607082	MADEP VPH	1607082
92516902007	L2-25-W	MADEPV	1607082	MADEP VPH	1607082
92516902008	L2-50-B	MADEPV	1607082	MADEP VPH	1607082
92516902009	L2-50-E	MADEPV	1608075	MADEP VPH	1608075
92516902010	L2-50-W	MADEPV	1608075	MADEP VPH	1608075
92516902011	L2-75-B	MADEPV	1607082	MADEP VPH	1607082
92516902011	L2-75-B	MADEPV	1608075	MADEP VPH	1608075
92516902012	L2-75-E	MADEPV	1607082	MADEP VPH	1607082
92516902013	L2-75-W	MADEPV	1607581	MADEP VPH	1607581
92516902014	L2-100-B	MADEPV	1608075	MADEP VPH	1608075
92516902015	L2-100-E	MADEPV	1607082	MADEP VPH	1607082
92516902016	L2-100-W	MADEPV	1607082	MADEP VPH	1607082
92516902017	L2-125-B	MADEPV	1607082	MADEP VPH	1607082
92516902017	L2-125-B	MADEPV	1607581	MADEP VPH	1607581
92516902018	L2-125-E	MADEPV	1608075	MADEP VPH	1608075
92516902019	L2-125-W	MADEPV	1607571	MADEP VPH	1607571
92516902020	L2-150-B	MADEPV	1607571	MADEP VPH	1607571
92516902021	L2-150-E	MADEPV	1607571	MADEP VPH	1607571
92516902021	L2-150-E	MADEPV	1608075	MADEP VPH	1608075
92516902022	L2-150-W	MADEPV	1607571	MADEP VPH	1607571
92516902023	L2-175-B	MADEPV	1607571	MADEP VPH	1607571
92516902023	L2-175-B	MADEPV	1608075	MADEP VPH	1608075
92516902024	L2-175-E	MADEPV	1607571	MADEP VPH	1607571
92516902025	L2-175-W	MADEPV	1607571	MADEP VPH	1607571
92516902026	L2-200-B	MADEPV	1607571	MADEP VPH	1607571
92516902027	L2-200-E	MADEPV	1607571	MADEP VPH	1607571
92516902027	L2-200-E	MADEPV	1608075	MADEP VPH	1608075
92516902028	L2-200-W	MADEPV	1607571	MADEP VPH	1607571
92516902029	L2-225-B	MADEPV	1608246	MADEP VPH	1608246
92516902030	L2-225-E	MADEPV	1608246	MADEP VPH	1608246
92516902031	L2-225-W	MADEPV	1608246	MADEP VPH	1608246
92516902032	L2-243-B	MADEPV	1608246	MADEP VPH	1608246
92516902033	L2-243-E	MADEPV	1608246	MADEP VPH	1608246
92516902034	L2-243-W	MADEPV	1608246	MADEP VPH	1608246
92516902035	L2-South Wall	MADEPV	1608246	MADEP VPH	1608246

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448

Pace Project No.: 92516902

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92516902001	L2-North Wall	5035A	1606925	EPA 8260D	1606925
92516902002	L2-0-B	5035A	1606925	EPA 8260D	1606925
92516902003	L2-0-E	5035A	1606925	EPA 8260D	1606925
92516902004	L2-0-W	5035A	1606925	EPA 8260D	1606925
92516902005	L2-25-B	5035A	1606925	EPA 8260D	1606925
92516902006	L2-25-E	5035A	1606925	EPA 8260D	1606925
92516902007	L2-25-W	5035A	1606925	EPA 8260D	1606925
92516902008	L2-50-B	5035A	1606925	EPA 8260D	1606925
92516902008	L2-50-B	5035A	1607518	EPA 8260D	1607518
92516902009	L2-50-E	5035A	1606925	EPA 8260D	1606925
92516902010	L2-50-W	5035A	1606925	EPA 8260D	1606925
92516902011	L2-75-B	5035A	1606925	EPA 8260D	1606925
92516902011	L2-75-B	5035A	1607518	EPA 8260D	1607518
92516902012	L2-75-E	5035A	1606925	EPA 8260D	1606925
92516902013	L2-75-W	5035A	1606925	EPA 8260D	1606925
92516902013	L2-75-W	5035A	1607518	EPA 8260D	1607518
92516902014	L2-100-B	5035A	1606925	EPA 8260D	1606925
92516902014	L2-100-B	5035A	1607518	EPA 8260D	1607518
92516902015	L2-100-E	5035A	1607518	EPA 8260D	1607518
92516902016	L2-100-W	5035A	1607372	EPA 8260D	1607372
92516902016	L2-100-W	5035A	1607919	EPA 8260D	1607919
92516902017	L2-125-B	5035A	1607606	EPA 8260D	1607606
92516902017	L2-125-B	5035A	1608104	EPA 8260D	1608104
92516902018	L2-125-E	5035A	1607372	EPA 8260D	1607372
92516902019	L2-125-W	5035A	1607372	EPA 8260D	1607372
92516902020	L2-150-B	5035A	1607606	EPA 8260D	1607606
92516902020	L2-150-B	5035A	1608104	EPA 8260D	1608104
92516902021	L2-150-E	5035A	1607606	EPA 8260D	1607606
92516902021	L2-150-E	5035A	1608104	EPA 8260D	1608104
92516902022	L2-150-W	5035A	1607606	EPA 8260D	1607606
92516902022	L2-150-W	5035A	1608104	EPA 8260D	1608104
92516902023	L2-175-B	5035A	1607606	EPA 8260D	1607606
92516902023	L2-175-B	5035A	1608104	EPA 8260D	1608104
92516902024	L2-175-E	5035A	1607606	EPA 8260D	1607606
92516902024	L2-175-E	5035A	1608104	EPA 8260D	1608104
92516902025	L2-175-W	5035A	1607606	EPA 8260D	1607606
92516902026	L2-200-B	5035A	1607606	EPA 8260D	1607606

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448

Pace Project No.: 92516902

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92516902027	L2-200-E	5035A	1607606	EPA 8260D	1607606
92516902027	L2-200-E	5035A	1608104	EPA 8260D	1608104
92516902028	L2-200-W	5035A	1607606	EPA 8260D	1607606
92516902029	L2-225-B	5035A	1607606	EPA 8260D	1607606
92516902030	L2-225-E	5035A	1607606	EPA 8260D	1607606
92516902031	L2-225-W	5035A	1607606	EPA 8260D	1607606
92516902032	L2-243-B	5035A	1607606	EPA 8260D	1607606
92516902033	L2-243-E	5035A	1607606	EPA 8260D	1607606
92516902034	L2-243-W	5035A	1607608	EPA 8260D	1607608
92516902035	L2-South Wall	5035A	1607608	EPA 8260D	1607608
92516902036	TB-1	SM 6200B	593118		
92516902001	L2-North Wall	SM 2540 G	1607228	SM 2540G	1607228
92516902002	L2-0-B	SM 2540 G	1607229	SM 2540G	1607229
92516902003	L2-0-E	SM 2540 G	1607229	SM 2540G	1607229
92516902004	L2-0-W	SM 2540 G	1607229	SM 2540G	1607229
92516902005	L2-25-B	SM 2540 G	1607229	SM 2540G	1607229
92516902006	L2-25-E	SM 2540 G	1607229	SM 2540G	1607229
92516902007	L2-25-W	SM 2540 G	1607229	SM 2540G	1607229
92516902008	L2-50-B	SM 2540 G	1607229	SM 2540G	1607229
92516902009	L2-50-E	SM 2540 G	1607229	SM 2540G	1607229
92516902010	L2-50-W	SM 2540 G	1607229	SM 2540G	1607229
92516902011	L2-75-B	SM 2540 G	1607229	SM 2540G	1607229
92516902012	L2-75-E	SM 2540 G	1607230	SM 2540G	1607230
92516902013	L2-75-W	SM 2540 G	1607230	SM 2540G	1607230
92516902014	L2-100-B	SM 2540 G	1607230	SM 2540G	1607230
92516902015	L2-100-E	SM 2540 G	1607230	SM 2540G	1607230
92516902016	L2-100-W	SM 2540 G	1607230	SM 2540G	1607230
92516902017	L2-125-B	SM 2540 G	1607230	SM 2540G	1607230
92516902018	L2-125-E	SM 2540 G	1607230	SM 2540G	1607230
92516902019	L2-125-W	SM 2540 G	1607230	SM 2540G	1607230
92516902020	L2-150-B	SM 2540 G	1607230	SM 2540G	1607230
92516902021	L2-150-E	SM 2540 G	1607230	SM 2540G	1607230
92516902022	L2-150-W	SM 2540 G	1607231	SM 2540G	1607231
92516902023	L2-175-B	SM 2540 G	1607231	SM 2540G	1607231
92516902024	L2-175-E	SM 2540 G	1607231	SM 2540G	1607231
92516902025	L2-175-W	SM 2540 G	1607231	SM 2540G	1607231
92516902026	L2-200-B	SM 2540 G	1607231	SM 2540G	1607231
92516902027	L2-200-E	SM 2540 G	1607231	SM 2540G	1607231
92516902028	L2-200-W	SM 2540 G	1607231	SM 2540G	1607231
92516902029	L2-225-B	SM 2540 G	1607231	SM 2540G	1607231
92516902030	L2-225-E	SM 2540 G	1607231	SM 2540G	1607231
92516902031	L2-225-W	SM 2540 G	1607231	SM 2540G	1607231
92516902032	L2-243-B	SM 2540 G	1607395	SM 2540G	1607395
92516902033	L2-243-E	SM 2540 G	1607396	SM 2540G	1607396

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 2020-L1-2448

Pace Project No.: 92516902

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92516902034	L2-243-W	SM 2540 G	1607396	SM 2540G	1607396
92516902035	L2-South Wall	SM 2540 G	1607396	SM 2540G	1607396

**REPORT OF LABORATORY ANALYSIS**

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Composites

Billing Information:

Address: Andrew Street

Report To: Andrew Street

Email To: Andrew.Street@apexcom.com

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: 2020-11-2448 Incident

State: NC County/City: Wake Time Zone Collected: PT MT CT ET

Phone: 704-244-2448

Site/Facility ID #:

Collected By (print): Eric Embanks

Purchase Order #: 11111

Collected By (signature): Eric Embanks

DW PWS ID #: 11111

Sample Disposal: 3 day TAT

Turnaround Date Required: 3 day TAT

Disposition: Return

Field Filtered (if applicable): Yes No

Archives: 12 Day 3 Day 4 Day 15 Day

Analysis: 8260

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chms
			Date	Time	Date	Time		
L2-North Wall	SL	G	1/12/21	1600				3
L2-0-B	SL	G	1/12/21	1400				3
L2-0-E	SL	G	1/12/21	1400				3
L2-0-W	SL	G	1/12/21	1400				3
L2-35-B	SL	G	1/12/21	1400				3
L2-25-E	SL	G	1/12/21	1400				3
L2-25-W	SL	G	1/12/21	1400				3
L2-50-B	SL	G	1/12/21	1415				3
L2-50-E	SL	G	1/12/21	1415				3
L2-50-W	SL	G	1/12/21	1415				3

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: N/A

Raddern sample(s) screened (<500 ppm): Y N NA

Relinquished by/Company: (Signature) [Signature] Date/Time: 12/20/15/12/21 Received by/Company: (Signature) [Signature] Date/Time: 1/15/21/1407

Relinquished by/Company: (Signature) [Signature] Date/Time: 1/15/21/1407 Received by/Company: (Signature) [Signature] Date/Time: 1/15/21/1407

Relinquished by/Company: (Signature) [Signature] Date/Time: 1/15/21/1407 Received by/Company: (Signature) [Signature] Date/Time: 1/15/21/1407

LAB USE ONLY

# W0#: 92516902



Container Preservative Type \*\*

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signatures Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VOA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments: 92516902

Lab Sample Temperature Info:	Temp Blank Received:	Therm ID#:	Cooler 1 Temp Upon Receipt:	Cooler 1 Therm Corr. Factor:	Cooler 1 Corrected Temp:	Comments:
Temp Blank Received: Y <u>NA</u>	Temp Blank Received: Y <u>NA</u>	Therm ID#: <u>922064</u>	Cooler 1 Temp Upon Receipt: <u>15.67</u>	Cooler 1 Therm Corr. Factor: <u>-0.19C</u>	Cooler 1 Corrected Temp: <u>15.48</u>	



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies  
Billing Information:  
Address:  
Report To: Andrew Street  
Email To: Andrew.Street@apexcs.com  
Site Collection Info/Address:

Customer Project Name/Number: 2020-LI-2448 Incident  
State: NC/ Hendersonville  
County/City: [ ] PT [ ] MT [ ] CT [ ] ET  
Time Zone Collected:  
Phone: [ ] Yes [ ] No  
Compliance Monitoring?  
Email: [ ] Yes [ ] No  
Purchase Order #:  
Quote #:  
DW PWS ID #:  
DW Location Code:

Collected By (print):  
Turnaround Date Required: 3 Day TAT  
Immediately Packed on Ice: [ ] Yes [ ] No  
Field Filtered (if applicable): [ ] Yes [ ] No  
Analysis: [ ] Yes [ ] No  
Sample Disposal:  
[ ] Dispose as appropriate [ ] Return  
[ ] Archive: [ ] Hold: [ ] Expedite Charges Apply

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
L2-75-B	SL	G	1/14/21	1430				3
L2-75-E	SL	G	1/14/21	1430				3
L2-75-W	SL	G	1/14/21	1430				3
L2-100-B	SL	G	1/14/21	1445				3
L2-100-E	SL	G	1/14/21	1445				3
L2-100-W	SL	G	1/14/21	1445				3
L2-125-B	SL	G	1/14/21	1500				3
L2-125-E	SL	G	1/14/21	1500				3
L2-125-W	SL	G	1/14/21	1500				3
L2-150-B	SL	G	1/14/21	1545				3

Customer Remarks / Special Conditions / Possible Hazards:  
Type of Ice Used: Wet Blue Dry None  
Packing Material Used: none  
Radchem sample(s) screened (<500 cpm): Y N NA  
Received by/Company: (Signature)  
Date/Time: 12/20 1/15/21  
Received by/Company: (Signature)  
Date/Time: 1-15-21 202 JED PACE TRU  
Received by/Company: (Signature)  
Date/Time:

LAB USE ONLY - Affix Work  
Container Preservative Type  
ALL SHADE

MO#: 92516902  
PM: AMB Due Date: 01/20/21  
CLIENT: 92-APEX M00R

Analyses  
Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line:	Lab Sample Receipt Checklist:
92516902	Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signatures Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: Y N NA Sample pH Acceptable Y N NA pH Strips: Y N NA Sulfide Present Y N NA Lead Acetate Strips: Y N NA

Lab Sample Temperature Info:  
Temp Blank Received: Y N NA  
Therm ID#: 92206  
Cooler 1 Temp Upon Receipt: 15.0°C  
Cooler 1 Therm Corr. Factor: 0.07°C  
Cooler 1 Corrected Temp: 14.93°C  
Comments: Trip Blank Received: Y N NA  
HCL MeOH TSP Other  
Non-Conformance(s): Y N NA  
Page: 2 of 2

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Billing Information:

ALL SHADED AREAS are for LAB USE ONLY

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTLL Log-in Number Here

Address: Apex Companies

Container Preservative Type: \*\*  
Lab Project Manager:

Report To: Andrew Street

Lab Profile/Line: Lab Sample Receipt Checklist:

Copy To: Andrew Street

Custody Seals Present/Intact Y N  
Custody Signatures Present Y N  
Collector Signatures Present Y N  
Bottles Intact Y N  
Correct Bottles Y N  
Sufficient Volume Y N  
Samples Received on Ice Y N  
VOA - Headspace Acceptable Y N  
USDA Regulated Soils Y N  
Samples in Holding Time Y N  
Residual Chlorine Present Y N  
Cl Strips: Y N  
Sample pH Acceptable Y N  
pH Strips: Y N  
Sulfide Present Y N  
Lead Acetate Strips: Y N

Customer Project Name/Number: 2080-21-2448 Incident

State: NC / County/City: Huntersville

Site/Facility ID #: NC/Huntersville

Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone: [ ] Yes [ ] No

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Eric Embanks

DW PWS ID #: [ ] Yes [ ] No

Collected By (signature): Eric Embanks

DW Location Code: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:

Field Filtered (if applicable): [ ] Yes [ ] No

Turnaround Date Required: 3 day TAT

Analysis: [ ] Yes [ ] No

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day

Matrix ID: [ ] Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Composite End Date	Res Cl	# of Ctns
L2-150-E	SL	G	1/14/21 1545			3
L2-150-W	SL	G	1/14/21 1545			3
L2-175-B	SL	G	1/14/21 1600			3
L2-175-E	SL	G	1/14/21 1600			3
L2-175-W	SL	G	1/14/21 1600			3
L2-200-B	SL	G	1/14/21 1630			3
L2-200-E	SL	G	1/14/21 1630			3
L2-200-W	SL	G	1/14/21 1630			3
TB-1	OT-Tissue	-	1/14/21			2

Type of Ice Used:	Wet	Blue	Dry	None
Packing Material Used:				
Radchem sample(s) screened (<500 cpm):				
Y				
N				
NA				

Customer Remarks / Special Conditions / Possible Hazards:

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Relinquished by/Company: (Signature) Date/Time: 1/15/21

Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) Date/Time: 1/15/21

Table #: MTLL LAB USE ONLY

Relinquished by/Company: (Signature) Date/Time: 1/15/21

Temp Blank Received: Y N  
Therm ID#: T2106  
Cooler 1 Temp Upon Receipt: 15.94  
Cooler 1 Therm Corr. Factor: -0.10C  
Cooler 1 Corrected Temp: 1.44 pd

Relinquished by/Company: (Signature) Date/Time: 1/15/21

Temp Blank Received: Y N  
HCL MeOH TSP Other

Relinquished by/Company: (Signature) Date/Time: 1/15/21

Non-Conformance(s): Page: 3 of 3



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **Apex Companies** Billing Information: \_\_\_\_\_  
 Address: \_\_\_\_\_ Email To: **Andrew.Street@apexcos.com**

Report To: **Andrew Street** Site Collection Info/Address: \_\_\_\_\_  
 Copy To: \_\_\_\_\_ State: \_\_\_\_\_ County/City: \_\_\_\_\_ Time Zone Collected: \_\_\_\_\_

Customer Project Name/Number: **2020-LE-2448 Incident** State: **NC** / **Huntersville** [ ] PT [ ] MT [ ] CT [ ] ET  
 Phone: \_\_\_\_\_ Site/Facility ID #: \_\_\_\_\_ Compliance Monitoring? [ ] Yes [ ] No  
 Email: \_\_\_\_\_ Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_  
 Collected By (print): **Eric Eubanks** Quote #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_

Collected By (signature): *[Signature]* Turnaround Date Required: **3 Day** [ ] Yes [ ] No  
 Sample Disposal: \_\_\_\_\_ Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 [ ] Dispose as appropriate [ ] Return [ ] Archive: \_\_\_\_\_ Field Filtered (if applicable): [ ] Yes [ ] No  
 [ ] Hold: \_\_\_\_\_ Expedite Charges Apply) Analysis: \_\_\_\_\_

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
L2-225-B	SL	G	1/5/21	1100				3
L2-225-E	SL	G	1/5/21	1055				3
L2-225-W	SL	G	1/5/21	1120				3
L2-243-B	SL	G	1/5/21	1105				3
L2-243-E	SL	G	1/5/21	1110				3
L2-243-W	SL	G	1/5/21	1135				3
L3-SOUTH Wall	SL	G	1/5/21	1115				3

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used:  Wet  Blue  Dry  None  
 Packing Material Used: **none**  
 Radchem sample(s) screened (<500 cpm): Y N NA  NA

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: **12:20 1/15/21**  
 Received by/Company: (Signature) \_\_\_\_\_ Date/Time: **1/15/21 12:20**

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: **1/15/21 12:07**  
 Received by/Company: (Signature) \_\_\_\_\_ Date/Time: **1/15/21 14:07**

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTL Log-in Number Here  
**ALL SHADED AREAS are for LAB USE ONLY**  
 Container Preservative Type: **CU**  
 Lab Project Manager: \_\_\_\_\_

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other \_\_\_\_\_  
 Analyses: \_\_\_\_\_

Lab Profile/line: \_\_\_\_\_  
 Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signature Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA Regulated Soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 CI Strips: Y N NA  
 Sample pH Acceptable Y N NA  
 PH Strips: Y N NA  
 Sulfide Present Y N NA  
 Lead Acetate Strips: Y N NA

LAB USE ONLY:  
 Lab Sample # / Comments: **92516902**

Lab Sample Temperature Info:	Temp Blank Received:	Therm ID#:	Cooler 1 Temp Upon Receipt:	Cooler 1 Therm Corr. Factor:	Cooler 1 Corrected Temp:
029	Y	922064	1.5°C	0.1°C	1.4°C
030	Y				
031	Y				
032	Y				
033	Y				
034	Y				
035	Y				

Lab Tracking #: **2561478**  
 Samples received via: FEDEX UPS Client Courier **Pace Courier**  
 Date/Time: **1/15/21 12:20**  
 MTL LAB USE ONLY

Actnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Non-Conformance(s): YES NO  
 Page: **4** of **4**



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

Project #

925116902

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

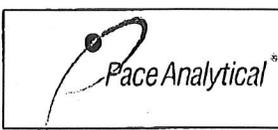
\*\*Bottom half of box is to list number of bottles

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)		
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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.



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

Project #

92516902  
2

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

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

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/Gaš 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																													
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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.



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

Project #

3

92516902

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

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

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	/				/	/	/	/		/		/	/	/															
2	/				/	/	/	/		/		/	/	/															
3	/				/	/	/	/		/		/	/	/															
4	/				/	/	/	/		/		/	/	/															
5	/				/	/	/	/		/		/	/	/															
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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.



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

Project #

92516902

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

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

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																														
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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).

## Sample Receiving Non-Conformance Form (NCF)

Date: 1/15/21	Evaluated by: [Signature]
Client: Apex	

**Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here**

92516902

**1. If Chain-of-Custody (COC) is not received:** contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

**2. If COC is incomplete, check applicable issues below and add details where appropriate:**

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	<input checked="" type="checkbox"/>	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received		Required signatures are missing

**Comments/Details/Other Issues not listed above:**

Received an extra set of trip blanks not mentioned in the COC

**3. Sample integrity issues: check applicable issues below and add details where appropriate:**

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

**Comments/Details:**

**4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:**

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

**5. Client Contact: If client is contacted for any issue listed above, fill in details below:**

Client:	Contacted per:	
PM Initials:	Date/Time:	

**Client Comments/Instructions:**

March 11, 2021

Andrew Street  
Apex Companies - NC  
5900 Northwoods Business Pkwy  
Suite 5900-0  
Charlotte, NC 28269

RE: Project: 2020-L1-2248  
Pace Project No.: 92525771

Dear Andrew Street:

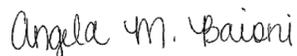
Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet

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

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline  
Margaret King, APEX Companies, LLC  
Cameron Lee, Montrose-EPS  
Jeff Morrison, Colonial Pipeline Company  
Tom Naumann, APEX Companies - NC  
Joe Nicolette, Montrose-EPS  
Christopher Schultz, Apex Companies  
Michael Verdon, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2020-L1-2248  
Pace Project No.: 92525771

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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

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2020-L1-2248  
Pace Project No.: 92525771

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525771001	MW-81 (15'-17')	MADEP VPH	BMB	6	PAN
		EPA 8260D	DWR	71	PAN
		SM 2540G	CMK	1	PAN
92525771002	MW-82 (15'-17')	MADEP VPH	BMB	6	PAN
		EPA 8260D	DWR	71	PAN
		SM 2540G	CMK	1	PAN

PAN = Pace National - Mt. Juliet

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2248

Pace Project No.: 92525771

**Sample: MW-81 (15'-17')**      **Lab ID: 92525771001**      Collected: 03/03/21 14:00      Received: 03/04/21 07:00      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH      Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/kg	7430	1.14	03/03/21 14:00	03/06/21 23:56		
Aliphatic (C09-C12)	ND	ug/kg	7430	1.14	03/03/21 14:00	03/06/21 23:56		
Aromatic (C09-C10),Unadjusted	ND	ug/kg	7430	1.14	03/03/21 14:00	03/06/21 23:56	TPHC9C10A	
Total VPH	ND	ug/kg	7430	1.14	03/03/21 14:00	03/06/21 23:56	VPH	
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	94.0	%	70.0-130	1.14	03/03/21 14:00	03/06/21 23:56	615-59-8FID	
2,5-Dibromotoluene (PID)	92.3	%	70.0-130	1.14	03/03/21 14:00	03/06/21 23:56	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
Acetone	ND	ug/kg	71.9	1.1	03/03/21 14:00	03/06/21 16:13	67-64-1	
Benzene	ND	ug/kg	1.44	1.1	03/03/21 14:00	03/06/21 16:13	71-43-2	
Bromobenzene	ND	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	108-86-1	
Bromodichloromethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	75-27-4	
Bromoform	ND	ug/kg	35.9	1.1	03/03/21 14:00	03/06/21 16:13	75-25-2	
Bromomethane	ND	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	74-83-9	
n-Butylbenzene	96.3	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	104-51-8	
sec-Butylbenzene	49.2	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	56-23-5	
Chlorobenzene	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	108-90-7	
Dibromochloromethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	124-48-1	
Chloroethane	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	75-00-3	
Chloroform	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	67-66-3	
Chloromethane	ND	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	95-49-8	
4-Chlorotoluene	212	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	35.9	1.1	03/03/21 14:00	03/06/21 16:13	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	106-93-4	
Dibromomethane	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	78-87-5	
1,1-Dichloropropene	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	563-58-6	
1,3-Dichloropropane	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	142-28-9	
cis-1,3-Dichloropropene	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	10061-02-6	
2,2-Dichloropropane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	594-20-7	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2020-L1-2248  
Pace Project No.: 92525771

**Sample: MW-81 (15'-17')**      **Lab ID: 92525771001**      Collected: 03/03/21 14:00      Received: 03/04/21 07:00      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D      Preparation Method: 5035A								
Pace National - Mt. Juliet								
Diisopropyl ether	ND	ug/kg	1.44	1.1	03/03/21 14:00	03/06/21 16:13	108-20-3	
Ethylbenzene	<b>9.39</b>	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	35.9	1.1	03/03/21 14:00	03/06/21 16:13	87-68-3	C3
2-Hexanone	ND	ug/kg	35.9	1.1	03/03/21 14:00	03/06/21 16:13	591-78-6	
Isopropylbenzene (Cumene)	<b>43.7</b>	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	99-87-6	
2-Butanone (MEK)	ND	ug/kg	144	1.1	03/03/21 14:00	03/06/21 16:13	78-93-3	
Methylene Chloride	ND	ug/kg	35.9	1.1	03/03/21 14:00	03/06/21 16:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	35.9	1.1	03/03/21 14:00	03/06/21 16:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	1.44	1.1	03/03/21 14:00	03/06/21 16:13	1634-04-4	
Naphthalene	ND	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	91-20-3	C3
n-Propylbenzene	<b>222</b>	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	103-65-1	
Styrene	ND	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	76-13-1	
Tetrachloroethene	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	127-18-4	
Toluene	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	79-00-5	
Trichloroethene	ND	ug/kg	1.44	1.1	03/03/21 14:00	03/06/21 16:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	96-18-4	
1,2,4-Trimethylbenzene	<b>29.2</b>	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	95-63-6	
1,2,3-Trimethylbenzene	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	526-73-8	
1,3,5-Trimethylbenzene	ND	ug/kg	7.19	1.1	03/03/21 14:00	03/06/21 16:13	108-67-8	
Vinyl acetate	ND	ug/kg	18.0	1.1	03/03/21 14:00	03/06/21 16:13	108-05-4	
Vinyl chloride	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	75-01-4	
o-Xylene	ND	ug/kg	3.59	1.1	03/03/21 14:00	03/06/21 16:13	95-47-6	
m&p-Xylene	<b>6.61</b>	ug/kg	5.75	1.1	03/03/21 14:00	03/06/21 16:13	179601-23-1	
Xylene (Total)	ND	ug/kg	9.35	1.1	03/03/21 14:00	03/06/21 16:13	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	107	%	75.0-131	1.1	03/03/21 14:00	03/06/21 16:13	2037-26-5	
4-Bromofluorobenzene (S)	96.8	%	67.0-138	1.1	03/03/21 14:00	03/06/21 16:13	460-00-4	
1,2-Dichloroethane-d4 (S)	89.4	%	70.0-130	1.1	03/03/21 14:00	03/06/21 16:13	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G      Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>86.1</b>	%		1	03/09/21 13:10	03/09/21 13:21		
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2248  
Pace Project No.: 92525771

**Sample: MW-82 (15'-17')**      **Lab ID: 92525771002**      Collected: 03/03/21 16:20      Received: 03/04/21 07:00      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>MADEPV</b>								
Analytical Method: MADEPV VPH    Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/kg	7270	1	03/03/21 16:20	03/07/21 00:30		ML, R1
Aliphatic (C09-C12)	ND	ug/kg	7270	1	03/03/21 16:20	03/07/21 00:30		ML, R1
Aromatic (C09-C10), Unadjusted	ND	ug/kg	7270	1	03/03/21 16:20	03/07/21 00:30	TPHC9C10A	ML, R1
Total VPH	ND	ug/kg	7270	1	03/03/21 16:20	03/07/21 00:30	VPH	ML, R1
<b>Surrogates</b>								
2,5-Dibromotoluene (FID)	93.9	%	70.0-130	1	03/03/21 16:20	03/07/21 00:30	615-59-8FID	
2,5-Dibromotoluene (PID)	93.0	%	70.0-130	1	03/03/21 16:20	03/07/21 00:30	615-59-8PID	
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
Acetone	ND	ug/kg	90.5	1.29	03/03/21 16:20	03/06/21 16:58	67-64-1	
Benzene	ND	ug/kg	1.81	1.29	03/03/21 16:20	03/06/21 16:58	71-43-2	
Bromobenzene	ND	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	108-86-1	
Bromodichloromethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	75-27-4	
Bromoform	ND	ug/kg	45.3	1.29	03/03/21 16:20	03/06/21 16:58	75-25-2	
Bromomethane	ND	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	74-83-9	
n-Butylbenzene	95.4	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	104-51-8	
sec-Butylbenzene	47.6	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	108-90-7	
Dibromochloromethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	124-48-1	
Chloroethane	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	75-00-3	
Chloroform	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	67-66-3	
Chloromethane	ND	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	45.3	1.29	03/03/21 16:20	03/06/21 16:58	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	106-93-4	
Dibromomethane	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	78-87-5	
1,1-Dichloropropene	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	563-58-6	
1,3-Dichloropropane	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	142-28-9	
cis-1,3-Dichloropropene	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	10061-02-6	
2,2-Dichloropropane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2020-L1-2248

Pace Project No.: 92525771

**Sample: MW-82 (15'-17')**      **Lab ID: 92525771002**      Collected: 03/03/21 16:20      Received: 03/04/21 07:00      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	DF	Prepared	Analyzed	CAS No.	Qual
<b>VOA (GC/MS) 8260D</b>								
Analytical Method: EPA 8260D    Preparation Method: 5035A								
Pace National - Mt. Juliet								
Diisopropyl ether	ND	ug/kg	1.81	1.29	03/03/21 16:20	03/06/21 16:58	108-20-3	
Ethylbenzene	<b>6.20</b>	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	45.3	1.29	03/03/21 16:20	03/06/21 16:58	87-68-3	C3
2-Hexanone	ND	ug/kg	45.3	1.29	03/03/21 16:20	03/06/21 16:58	591-78-6	
Isopropylbenzene (Cumene)	<b>37.5</b>	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	98-82-8	
p-Isopropyltoluene	<b>18.4</b>	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	99-87-6	
2-Butanone (MEK)	ND	ug/kg	181	1.29	03/03/21 16:20	03/06/21 16:58	78-93-3	
Methylene Chloride	ND	ug/kg	45.3	1.29	03/03/21 16:20	03/06/21 16:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.3	1.29	03/03/21 16:20	03/06/21 16:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	1.81	1.29	03/03/21 16:20	03/06/21 16:58	1634-04-4	
Naphthalene	ND	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	91-20-3	C3
n-Propylbenzene	<b>170</b>	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	103-65-1	
Styrene	ND	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	76-13-1	
Tetrachloroethene	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	127-18-4	
Toluene	ND	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	79-00-5	
Trichloroethene	ND	ug/kg	1.81	1.29	03/03/21 16:20	03/06/21 16:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	96-18-4	
1,2,4-Trimethylbenzene	<b>31.4</b>	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	95-63-6	
1,2,3-Trimethylbenzene	<b>10.8</b>	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	526-73-8	
1,3,5-Trimethylbenzene	<b>18.5</b>	ug/kg	9.05	1.29	03/03/21 16:20	03/06/21 16:58	108-67-8	
Vinyl acetate	ND	ug/kg	22.6	1.29	03/03/21 16:20	03/06/21 16:58	108-05-4	
Vinyl chloride	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	75-01-4	
o-Xylene	ND	ug/kg	4.53	1.29	03/03/21 16:20	03/06/21 16:58	95-47-6	
m&p-Xylene	ND	ug/kg	7.24	1.29	03/03/21 16:20	03/06/21 16:58	179601-23-1	
Xylene (Total)	ND	ug/kg	11.8	1.29	03/03/21 16:20	03/06/21 16:58	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	104	%	75.0-131	1.29	03/03/21 16:20	03/06/21 16:58	2037-26-5	
4-Bromofluorobenzene (S)	102	%	67.0-138	1.29	03/03/21 16:20	03/06/21 16:58	460-00-4	
1,2-Dichloroethane-d4 (S)	93.4	%	70.0-130	1.29	03/03/21 16:20	03/06/21 16:58	17060-07-0	

**Total Solids 2540 G-2011**

Analytical Method: SM 2540G    Preparation Method: SM 2540 G

Pace National - Mt. Juliet

Total Solids	<b>81.5</b>	%		1	03/09/21 13:10	03/09/21 13:21		
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## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2248

Pace Project No.: 92525771

QC Batch: 1630643

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525771001, 92525771002

METHOD BLANK: R3629469-3

Matrix: Solid

Associated Lab Samples: 92525771001, 92525771002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/kg	ND	5000	03/06/21 19:52	
Aliphatic (C09-C12)	ug/kg	ND	5000	03/06/21 19:52	
Aromatic (C09-C10),Unadjusted	ug/kg	ND	5000	03/06/21 19:52	
Total VPH	ug/kg	ND	5000	03/06/21 19:52	
2,5-Dibromotoluene (FID)	%	82	70.0-130	03/06/21 19:52	
2,5-Dibromotoluene (PID)	%	81	70.0-130	03/06/21 19:52	

LABORATORY CONTROL SAMPLE & LCSD: R3629469-1 R3629469-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/kg	60000	58500	66400	97.5	111	70.0-130	12.7	25	
Aliphatic (C09-C12)	ug/kg	70000	75100	86700	107	124	70.0-130	14.3	25	
Aromatic (C09-C10),Unadjusted	ug/kg	10000	11500	12400	115	124	70.0-130	7.53	25	
Total VPH	ug/kg	140000	145000	166000	104	119	70.0-130	13.5	25	
2,5-Dibromotoluene (FID)	%				85.6	96.9	70.0-130			
2,5-Dibromotoluene (PID)	%				85.5	97.2	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3629469-4 R3629469-5

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92525771002 Result	Spike Conc.	Spike Conc.	MS Result					
Aliphatic (C05-C08)	ug/kg	ND	87200	87200	35800	66000	41.0	75.7	70.0-130	59.4 ML,R1
Aliphatic (C09-C12)	ug/kg	ND	102000	102000	48600	106000	47.7	104	70.0-130	74.0 ML,R1
Aromatic (C09-C10),Unadjusted	ug/kg	ND	14500	14500	8800	17200	60.5	118	70.0-130	64.4 ML,R1
Total VPH	ug/kg	ND	204000	204000	93100	189000	45.7	92.9	70.0-130	68.0 ML,R1
2,5-Dibromotoluene (FID)	%						93.0	93.3	70.0-130	
2,5-Dibromotoluene (PID)	%						93.0	94.3	70.0-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2248  
Pace Project No.: 92525771

QC Batch: 1630372	Analysis Method: EPA 8260D
QC Batch Method: 5035A	Analysis Description: VOA (GC/MS) 8260D
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525771001, 92525771002

METHOD BLANK: R3628520-3 Matrix: Solid

Associated Lab Samples: 92525771001, 92525771002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/kg	ND	50.0	03/06/21 12:38	
Benzene	ug/kg	ND	1.00	03/06/21 12:38	
Bromobenzene	ug/kg	ND	12.5	03/06/21 12:38	
Bromodichloromethane	ug/kg	ND	2.50	03/06/21 12:38	
Bromoform	ug/kg	ND	25.0	03/06/21 12:38	
Bromomethane	ug/kg	ND	12.5	03/06/21 12:38	
n-Butylbenzene	ug/kg	ND	12.5	03/06/21 12:38	
sec-Butylbenzene	ug/kg	ND	12.5	03/06/21 12:38	
tert-Butylbenzene	ug/kg	ND	5.00	03/06/21 12:38	
Carbon tetrachloride	ug/kg	ND	5.00	03/06/21 12:38	
Chlorobenzene	ug/kg	ND	2.50	03/06/21 12:38	
Dibromochloromethane	ug/kg	ND	2.50	03/06/21 12:38	
Chloroethane	ug/kg	ND	5.00	03/06/21 12:38	
Chloroform	ug/kg	ND	2.50	03/06/21 12:38	
Chloromethane	ug/kg	ND	12.5	03/06/21 12:38	
2-Chlorotoluene	ug/kg	ND	2.50	03/06/21 12:38	
4-Chlorotoluene	ug/kg	ND	5.00	03/06/21 12:38	
1,2-Dibromo-3-chloropropane	ug/kg	ND	25.0	03/06/21 12:38	
1,2-Dibromoethane (EDB)	ug/kg	ND	2.50	03/06/21 12:38	
Dibromomethane	ug/kg	ND	5.00	03/06/21 12:38	
1,2-Dichlorobenzene	ug/kg	ND	5.00	03/06/21 12:38	
1,3-Dichlorobenzene	ug/kg	ND	5.00	03/06/21 12:38	
1,4-Dichlorobenzene	ug/kg	ND	5.00	03/06/21 12:38	
Dichlorodifluoromethane	ug/kg	ND	2.50	03/06/21 12:38	
1,1-Dichloroethane	ug/kg	ND	2.50	03/06/21 12:38	
1,2-Dichloroethane	ug/kg	ND	2.50	03/06/21 12:38	
1,1-Dichloroethene	ug/kg	ND	2.50	03/06/21 12:38	
cis-1,2-Dichloroethene	ug/kg	ND	2.50	03/06/21 12:38	
trans-1,2-Dichloroethene	ug/kg	ND	5.00	03/06/21 12:38	
1,2-Dichloropropane	ug/kg	ND	5.00	03/06/21 12:38	
1,1-Dichloropropene	ug/kg	ND	2.50	03/06/21 12:38	
1,3-Dichloropropane	ug/kg	ND	5.00	03/06/21 12:38	
cis-1,3-Dichloropropene	ug/kg	ND	2.50	03/06/21 12:38	
trans-1,3-Dichloropropene	ug/kg	ND	5.00	03/06/21 12:38	
2,2-Dichloropropane	ug/kg	ND	2.50	03/06/21 12:38	
Diisopropyl ether	ug/kg	ND	1.00	03/06/21 12:38	
Ethylbenzene	ug/kg	ND	2.50	03/06/21 12:38	
Hexachloro-1,3-butadiene	ug/kg	ND	25.0	03/06/21 12:38	
2-Hexanone	ug/kg	ND	25.0	03/06/21 12:38	
Isopropylbenzene (Cumene)	ug/kg	ND	2.50	03/06/21 12:38	

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### QUALITY CONTROL DATA

Project: 2020-L1-2248

Pace Project No.: 92525771

METHOD BLANK: R3628520-3

Matrix: Solid

Associated Lab Samples: 92525771001, 92525771002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	ug/kg	ND	5.00	03/06/21 12:38	
2-Butanone (MEK)	ug/kg	ND	100	03/06/21 12:38	
Methylene Chloride	ug/kg	ND	25.0	03/06/21 12:38	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	03/06/21 12:38	
Methyl-tert-butyl ether	ug/kg	ND	1.00	03/06/21 12:38	
Naphthalene	ug/kg	ND	12.5	03/06/21 12:38	
n-Propylbenzene	ug/kg	ND	5.00	03/06/21 12:38	
Styrene	ug/kg	ND	12.5	03/06/21 12:38	
1,1,1,2-Tetrachloroethane	ug/kg	ND	2.50	03/06/21 12:38	
1,1,2,2-Tetrachloroethane	ug/kg	ND	2.50	03/06/21 12:38	
Tetrachloroethene	ug/kg	ND	2.50	03/06/21 12:38	
Toluene	ug/kg	ND	5.00	03/06/21 12:38	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	2.50	03/06/21 12:38	
1,2,3-Trichlorobenzene	ug/kg	ND	12.5	03/06/21 12:38	
1,2,4-Trichlorobenzene	ug/kg	ND	12.5	03/06/21 12:38	
1,1,1-Trichloroethane	ug/kg	ND	2.50	03/06/21 12:38	
1,1,2-Trichloroethane	ug/kg	ND	2.50	03/06/21 12:38	
Trichloroethene	ug/kg	ND	1.00	03/06/21 12:38	
Trichlorofluoromethane	ug/kg	ND	2.50	03/06/21 12:38	
1,2,3-Trichloropropane	ug/kg	ND	12.5	03/06/21 12:38	
1,2,3-Trimethylbenzene	ug/kg	ND	5.00	03/06/21 12:38	
1,2,4-Trimethylbenzene	ug/kg	ND	5.00	03/06/21 12:38	
1,3,5-Trimethylbenzene	ug/kg	ND	5.00	03/06/21 12:38	
Vinyl acetate	ug/kg	ND	12.5	03/06/21 12:38	
Vinyl chloride	ug/kg	ND	2.50	03/06/21 12:38	
Xylene (Total)	ug/kg	ND	6.50	03/06/21 12:38	
o-Xylene	ug/kg	ND	2.50	03/06/21 12:38	
m&p-Xylene	ug/kg	ND	4.00	03/06/21 12:38	
Toluene-d8 (S)	%	106	75.0-131	03/06/21 12:38	
4-Bromofluorobenzene (S)	%	93.1	67.0-138	03/06/21 12:38	
1,2-Dichloroethane-d4 (S)	%	92.3	70.0-130	03/06/21 12:38	

LABORATORY CONTROL SAMPLE & LCSD: R3628520-1 R3628520-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ug/kg	625	576	531	92.2	85.0	10.0-160	8.13	31	
Benzene	ug/kg	125	116	109	92.8	87.2	70.0-123	6.22	20	
Bromobenzene	ug/kg	125	136	119	109	95.2	73.0-121	13.3	20	
Bromodichloromethane	ug/kg	125	108	107	86.4	85.6	73.0-121	0.930	20	
Bromoform	ug/kg	125	107	98.4	85.6	78.7	64.0-132	8.37	20	
Bromomethane	ug/kg	125	107	100	85.6	80.0	56.0-147	6.76	20	
n-Butylbenzene	ug/kg	125	111	99.9	88.8	79.9	68.0-135	10.5	20	
sec-Butylbenzene	ug/kg	125	131	119	105	95.2	74.0-130	9.60	20	
tert-Butylbenzene	ug/kg	125	130	119	104	95.2	75.0-127	8.84	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2248

Pace Project No.: 92525771

LABORATORY CONTROL SAMPLE & LCSD:		R3628520-1		R3628520-2						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Carbon tetrachloride	ug/kg	125	111	103	88.8	82.4	66.0-128	7.48	20	
Chlorobenzene	ug/kg	125	114	104	91.2	83.2	76.0-128	9.17	20	
Dibromochloromethane	ug/kg	125	108	102	86.4	81.6	74.0-127	5.71	20	
Chloroethane	ug/kg	125	120	115	96.0	92.0	61.0-134	4.26	20	
Chloroform	ug/kg	125	118	112	94.4	89.6	72.0-123	5.22	20	
Chloromethane	ug/kg	125	108	102	86.4	81.6	51.0-138	5.71	20	
2-Chlorotoluene	ug/kg	125	123	111	98.4	88.8	75.0-124	10.3	20	
4-Chlorotoluene	ug/kg	125	133	115	106	92.0	75.0-124	14.5	20	
1,2-Dibromo-3-chloropropane	ug/kg	125	86.7	88.2	69.4	70.6	59.0-130	1.72	20	
1,2-Dibromoethane (EDB)	ug/kg	125	123	120	98.4	96.0	74.0-128	2.47	20	
Dibromomethane	ug/kg	125	115	109	92.0	87.2	75.0-122	5.36	20	
1,2-Dichlorobenzene	ug/kg	125	105	100	84.0	80.0	76.0-124	4.88	20	
1,3-Dichlorobenzene	ug/kg	125	111	99.9	88.8	79.9	76.0-125	10.5	20	
1,4-Dichlorobenzene	ug/kg	125	111	103	88.8	82.4	77.0-121	7.48	20	
Dichlorodifluoromethane	ug/kg	125	101	94.4	80.8	75.5	43.0-156	6.76	20	
1,1-Dichloroethane	ug/kg	125	122	111	97.6	88.8	70.0-127	9.44	20	
1,2-Dichloroethane	ug/kg	125	115	109	92.0	87.2	65.0-131	5.36	20	
1,1-Dichloroethene	ug/kg	125	120	110	96.0	88.0	65.0-131	8.70	20	
cis-1,2-Dichloroethene	ug/kg	125	121	109	96.8	87.2	73.0-125	10.4	20	
trans-1,2-Dichloroethene	ug/kg	125	124	113	99.2	90.4	71.0-125	9.28	20	
1,2-Dichloropropane	ug/kg	125	124	121	99.2	96.8	74.0-125	2.45	20	
1,1-Dichloropropene	ug/kg	125	120	110	96.0	88.0	73.0-125	8.70	20	
1,3-Dichloropropane	ug/kg	125	120	115	96.0	92.0	80.0-125	4.26	20	
cis-1,3-Dichloropropene	ug/kg	125	114	111	91.2	88.8	76.0-127	2.67	20	
trans-1,3-Dichloropropene	ug/kg	125	119	117	95.2	93.6	73.0-127	1.69	20	
2,2-Dichloropropane	ug/kg	125	125	115	100	92.0	59.0-135	8.33	20	
Diisopropyl ether	ug/kg	125	125	120	100	96.0	60.0-136	4.08	20	
Ethylbenzene	ug/kg	125	117	110	93.6	88.0	74.0-126	6.17	20	
Hexachloro-1,3-butadiene	ug/kg	125	90.2	90.8	72.2	72.6	57.0-150	0.663	20	
2-Hexanone	ug/kg	625	585	569	93.6	91.0	54.0-147	2.77	20	
Isopropylbenzene (Cumene)	ug/kg	125	115	108	92.0	86.4	72.0-127	6.28	20	
p-Isopropyltoluene	ug/kg	125	127	114	102	91.2	72.0-133	10.8	20	
2-Butanone (MEK)	ug/kg	625	648	522	104	83.5	30.0-160	21.5	24	
Methylene Chloride	ug/kg	125	108	104	86.4	83.2	68.0-123	3.77	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	625	690	673	110	108	56.0-143	2.49	20	
Methyl-tert-butyl ether	ug/kg	125	114	111	91.2	88.8	66.0-132	2.67	20	
Naphthalene	ug/kg	125	97.4	105	77.9	84.0	59.0-130	7.51	20	
n-Propylbenzene	ug/kg	125	136	123	109	98.4	74.0-126	10.0	20	
Styrene	ug/kg	125	105	99.2	84.0	79.4	72.0-127	5.68	20	
1,1,1,2-Tetrachloroethane	ug/kg	125	114	104	91.2	83.2	74.0-129	9.17	20	
1,1,2,2-Tetrachloroethane	ug/kg	125	127	119	102	95.2	68.0-128	6.50	20	
Tetrachloroethene	ug/kg	125	128	113	102	90.4	70.0-136	12.4	20	
Toluene	ug/kg	125	120	111	96.0	88.8	75.0-121	7.79	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	125	105	95.6	84.0	76.5	61.0-139	9.37	20	
1,2,3-Trichlorobenzene	ug/kg	125	109	114	87.2	91.2	59.0-139	4.48	20	
1,2,4-Trichlorobenzene	ug/kg	125	110	103	88.0	82.4	62.0-137	6.57	20	
1,1,1-Trichloroethane	ug/kg	125	107	102	85.6	81.6	69.0-126	4.78	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2020-L1-2248

Pace Project No.: 92525771

LABORATORY CONTROL SAMPLE & LCSD: R3628520-1			R3628520-2				% Rec Limits	RPD	Max RPD	Qualifiers
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
1,1,2-Trichloroethane	ug/kg	125	126	122	101	97.6	78.0-123	3.23	20	
Trichloroethene	ug/kg	125	123	112	98.4	89.6	76.0-126	9.36	20	
Trichlorofluoromethane	ug/kg	125	114	105	91.2	84.0	61.0-142	8.22	20	
1,2,3-Trichloropropane	ug/kg	125	120	113	96.0	90.4	67.0-129	6.01	20	
1,2,3-Trimethylbenzene	ug/kg	125	117	104	93.6	83.2	74.0-124	11.8	20	
1,2,4-Trimethylbenzene	ug/kg	125	119	104	95.2	83.2	70.0-126	13.5	20	
1,3,5-Trimethylbenzene	ug/kg	125	124	112	99.2	89.6	73.0-127	10.2	20	
Vinyl acetate	ug/kg	625	595	572	95.2	91.5	43.0-159	3.94	20	
Vinyl chloride	ug/kg	125	108	102	86.4	81.6	63.0-134	5.71	20	
Xylene (Total)	ug/kg	375	342	312	91.2	83.2	72.0-127	9.17	20	
o-Xylene	ug/kg	125	112	103	89.6	82.4	79.0-124	8.37	20	
m&p-Xylene	ug/kg	250	230	209	92.0	83.6	76.0-126	9.57	20	
Toluene-d8 (S)	%				102	104	75.0-131			
4-Bromofluorobenzene (S)	%				92.3	93.1	67.0-138			
1,2-Dichloroethane-d4 (S)	%				97.0	101	70.0-130			

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### QUALITY CONTROL DATA

Project: 2020-L1-2248

Pace Project No.: 92525771

QC Batch: 1631118

Analysis Method: SM 2540G

QC Batch Method: SM 2540 G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92525771001, 92525771002

METHOD BLANK: R3629343-1

Matrix: Solid

Associated Lab Samples: 92525771001, 92525771002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		03/09/21 13:21	

LABORATORY CONTROL SAMPLE: R3629343-2

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

SAMPLE DUPLICATE: R3629343-3

Parameter	Units	L1323384-01 Result	Dup Result	RPD	Qualifiers
Total Solids	%	94.1	93.6	0.524	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2020-L1-2248

Pace Project No.: 92525771

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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.

### ANALYTE QUALIFIERS

C3 The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2248

Pace Project No.: 92525771

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525771001	MW-81 (15'-17')	MADEPV	1630643	MADEP VPH	1630643
92525771002	MW-82 (15'-17')	MADEPV	1630643	MADEP VPH	1630643
92525771001	MW-81 (15'-17')	5035A	1630372	EPA 8260D	1630372
92525771002	MW-82 (15'-17')	5035A	1630372	EPA 8260D	1630372
92525771001	MW-81 (15'-17')	SM 2540 G	1631118	SM 2540G	1631118
92525771002	MW-82 (15'-17')	SM 2540 G	1631118	SM 2540G	1631118

### REPORT OF LABORATORY ANALYSIS

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NO#: 92525771

LAB USE ONLY



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
Billing information:

Company: Apex Companies

Address: 5900 North Woods Bus. Pkwy, Ste 0

Report To: Andrew Street

Copy To:

Email To: Andrew.Street@apexcos.com  
Site Collection info/Address: CPC Huntersville Release

State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Customer Project Name/Number: 2020-LI-2248  
Site/Facility ID #:

Purchase Order #: DW PWS ID #: DW Location Code:

Turnaround Date Required: Standard  
Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day

Field Filtered (if applicable): [ ] Yes [ ] No  
Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Table with columns: Customer Sample ID, Matrix, Comp/Grab, Collected (or Composite Start) Date, Composite End Date, Time, Res Cl, # of Ctns. Rows include MW-81 and MW-82.

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: (Wet) from Packing Material Used: Radchem sample(s) screened (<500 cpm): Y N (NA)

Table with columns: Relinquished by/Company, Date/Time, Received by/Company, Date/Time. Includes signatures and dates for Apex.

Container Preservative Type: 66

Analyses: VOCs by 8260 MADEP VPH

Lab Profile/Line: Lab Sample Receipt Checklist: Custody Seals Present/Intact Y (N) NA

Lab Sample Temperature Info: Temp Blank Received: Y (N) NA Therm ID#: 92525771



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

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

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

Project #

**WO# : 92525771**

PM: AMB

Due Date: 03/11/21

CLIENT : 92-APEX MOOR

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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/
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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).

March 04, 2021

Alex Testoff  
Montrose Environmental Group, Inc.  
400 Northridge Rd.  
Suite 400  
Atlanta, GA 30350

RE: Project: Colonial Northstone (2/26/21)  
Pace Project No.: 92524638

Dear Alex Testoff:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline Company  
Margaret King, APEX Companies, LLC  
Cam Lee, Montrose Environmental Group  
Jeff Morrison, Colonial Pipeline Company  
Nicholas Nelson, Montrose Environmental Group, Inc.  
Andrew Street, Apex Companies - NC  
J Tate, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

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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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### SAMPLE ANALYTE COUNT

Project: Colonial Northstone (2/26/21)  
Pace Project No.: 92524638

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92524638001	21057-SW-1	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92524638002	21057-SW-2	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92524638003	21057-SW-3	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92524638004	21057-SW-4	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92524638005	21057-SW-5	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92524638006	21057-SW-6	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92524638007	21057-SW-7	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92524638008	21057-SW-DUP	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92524638009	21057-SW-Confluence	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92524638010	21057-SW-Seep	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92524638011	21057-Trip Blank	EPA 8260D	BSH	9	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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## ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

Sample: 21057-SW-1	Lab ID: 92524638001	Collected: 02/26/21 14:20	Received: 02/26/21 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 5030B/8015C Mod.								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/01/21 16:52		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	88	%	70-130	1		03/01/21 16:52	460-00-4	
<b>8260D MSV Low Level</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		03/02/21 13:00	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/21 13:00	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/21 13:00	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/02/21 13:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/02/21 13:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/02/21 13:00	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		03/02/21 13:00	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		03/02/21 13:00	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		03/02/21 13:00	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

Sample: 21057-SW-2	Lab ID: 92524638002	Collected: 02/26/21 14:30		Received: 02/26/21 17:02		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/01/21 17:48		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	86	%	70-130	1		03/01/21 17:48	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/02/21 13:18	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/21 13:18	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/21 13:18	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/02/21 13:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/02/21 13:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/02/21 13:18	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		03/02/21 13:18	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		03/02/21 13:18	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/02/21 13:18	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)  
Pace Project No.: 92524638

Sample: 21057-SW-3	Lab ID: 92524638003	Collected: 02/26/21 14:45	Received: 02/26/21 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/01/21 18:16		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	84	%	70-130	1		03/01/21 18:16	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/02/21 13:36	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/21 13:36	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/21 13:36	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/02/21 13:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/02/21 13:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/02/21 13:36	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100	%	70-130	1		03/02/21 13:36	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		03/02/21 13:36	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/02/21 13:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

Sample: 21057-SW-4	Lab ID: 92524638004	Collected: 02/26/21 15:15	Received: 02/26/21 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/01/21 18:45		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	90	%	70-130	1		03/01/21 18:45	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/02/21 13:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/21 13:55	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/21 13:55	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/02/21 13:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/02/21 13:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/02/21 13:55	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		03/02/21 13:55	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		03/02/21 13:55	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/02/21 13:55	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 21057-SW-5</b>								
<b>Lab ID: 92524638005</b>								
Collected: 02/26/21 15:35								
Received: 02/26/21 17:02								
Matrix: Water								
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 5030B/8015C Mod.								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/01/21 19:13		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	89	%	70-130	1		03/01/21 19:13	460-00-4	
<b>8260D MSV Low Level</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		03/02/21 14:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/21 14:13	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/21 14:13	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/02/21 14:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/02/21 14:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/02/21 14:13	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		03/02/21 14:13	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		03/02/21 14:13	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/02/21 14:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 21057-SW-6</b>								
<b>Lab ID: 92524638006</b>								
Collected: 02/26/21 15:45								
Received: 02/26/21 17:02								
Matrix: Water								
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 5030B/8015C Mod.								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/01/21 19:41		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	86	%	70-130	1		03/01/21 19:41	460-00-4	
<b>8260D MSV Low Level</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		03/02/21 14:31	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/21 14:31	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/21 14:31	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/02/21 14:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/02/21 14:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/02/21 14:31	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-130	1		03/02/21 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		03/02/21 14:31	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/02/21 14:31	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

Sample: 21057-SW-7	Lab ID: 92524638007	Collected: 02/26/21 16:00		Received: 02/26/21 17:02		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/01/21 20:09		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	88	%	70-130	1		03/01/21 20:09	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/02/21 14:49	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/21 14:49	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/21 14:49	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/02/21 14:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/02/21 14:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/02/21 14:49	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100	%	70-130	1		03/02/21 14:49	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		03/02/21 14:49	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/02/21 14:49	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)  
Pace Project No.: 92524638

Sample: 21057-SW-DUP	Lab ID: 92524638008	Collected: 02/26/21 12:00	Received: 02/26/21 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/01/21 20:37		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	88	%	70-130	1		03/01/21 20:37	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/02/21 15:07	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/21 15:07	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/21 15:07	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/02/21 15:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/02/21 15:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/02/21 15:07	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		03/02/21 15:07	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		03/02/21 15:07	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		03/02/21 15:07	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 21057-SW-Confluence      Lab ID: 92524638009      Collected: 02/26/21 13:55      Received: 02/26/21 17:02      Matrix: Water</b>								
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/01/21 21:05		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	90	%	70-130	1		03/01/21 21:05	460-00-4	
<b>8260D MSV Low Level</b>								
Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		03/02/21 16:31	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/21 16:31	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/21 16:31	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/02/21 16:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/02/21 16:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/02/21 16:31	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102	%	70-130	1		03/02/21 16:31	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		03/02/21 16:31	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/02/21 16:31	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 21057-SW-Seep</b>								
<b>Lab ID: 92524638010</b>								
Collected: 02/26/21 13:50								
Received: 02/26/21 17:02								
Matrix: Water								
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 5030B/8015C Mod.								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/01/21 21:33		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	90	%	70-130	1		03/01/21 21:33	460-00-4	
<b>8260D MSV Low Level</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		03/02/21 16:49	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/21 16:49	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/21 16:49	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/02/21 16:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/02/21 16:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/02/21 16:49	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-130	1		03/02/21 16:49	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		03/02/21 16:49	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/02/21 16:49	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

Sample: 21057-Trip Blank		Lab ID: 92524638011		Collected: 02/26/21 00:00	Received: 02/26/21 17:02	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/01/21 15:35	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/01/21 15:35	100-41-4	
Toluene	ND	ug/L	1.0	1		03/01/21 15:35	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/01/21 15:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/01/21 15:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/01/21 15:35	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		03/01/21 15:35	460-00-4	T3
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		03/01/21 15:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/01/21 15:35	2037-26-5	

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### QUALITY CONTROL DATA

Project: Colonial Northstone (2/26/21)  
Pace Project No.: 92524638

QC Batch:	603364	Analysis Method:	EPA 5030B/8015C Mod.
QC Batch Method:	EPA 5030B/8015C Mod.	Analysis Description:	Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92524638001, 92524638002, 92524638003, 92524638004, 92524638005, 92524638006, 92524638007, 92524638008, 92524638009, 92524638010

METHOD BLANK: 3179005 Matrix: Water  
Associated Lab Samples: 92524638001, 92524638002, 92524638003, 92524638004, 92524638005, 92524638006, 92524638007, 92524638008, 92524638009, 92524638010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	03/01/21 15:56	
4-Bromofluorobenzene (S)	%	87	70-130	03/01/21 15:56	

LABORATORY CONTROL SAMPLE: 3179006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	0.96	96	70-130	
4-Bromofluorobenzene (S)	%			90	70-130	

MATRIX SPIKE SAMPLE: 3179008

Parameter	Units	92524638002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	1	0.98	97	68-145	
4-Bromofluorobenzene (S)	%				93	70-130	

SAMPLE DUPLICATE: 3179007

Parameter	Units	92524638001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	ND		
4-Bromofluorobenzene (S)	%	88	87		

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: Colonial Northstone (2/26/21)  
Pace Project No.: 92524638

QC Batch: 603261 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92524638001, 92524638002, 92524638003, 92524638004, 92524638005, 92524638006, 92524638007, 92524638008, 92524638009, 92524638010

METHOD BLANK: 3178528 Matrix: Water  
Associated Lab Samples: 92524638001, 92524638002, 92524638003, 92524638004, 92524638005, 92524638006, 92524638007, 92524638008, 92524638009, 92524638010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/02/21 11:30	
Ethylbenzene	ug/L	ND	1.0	03/02/21 11:30	
m&p-Xylene	ug/L	ND	2.0	03/02/21 11:30	
o-Xylene	ug/L	ND	1.0	03/02/21 11:30	
Toluene	ug/L	ND	1.0	03/02/21 11:30	
Xylene (Total)	ug/L	ND	1.0	03/02/21 11:30	
1,2-Dichloroethane-d4 (S)	%	106	70-130	03/02/21 11:30	
4-Bromofluorobenzene (S)	%	102	70-130	03/02/21 11:30	
Toluene-d8 (S)	%	101	70-130	03/02/21 11:30	

LABORATORY CONTROL SAMPLE: 3178529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	48.2	96	70-130	
Ethylbenzene	ug/L	50	48.2	96	70-130	
m&p-Xylene	ug/L	100	96.0	96	70-130	
o-Xylene	ug/L	50	48.3	97	70-130	
Toluene	ug/L	50	48.4	97	70-130	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3178530 3178531

Parameter	Units	92524638001		3178530		3178531		% Rec	% Rec	Limits	RPD	Qual
		MS Result	MSD Spike Conc.	MS Spike Conc.	MSD Result	MS % Rec	MSD % Rec					
Benzene	ug/L	ND	20	20	21.9	21.1	110	105	67-150	4		
Ethylbenzene	ug/L	ND	20	20	22.1	21.2	110	106	68-143	4		
m&p-Xylene	ug/L	ND	40	40	43.8	42.3	110	106	53-157	4		
o-Xylene	ug/L	ND	20	20	22.2	21.3	111	107	68-143	4		
Toluene	ug/L	ND	20	20	21.5	21.0	108	105	47-157	3		
Xylene (Total)	ug/L	ND	60	60	66.0	63.6	110	106	66-145	4		
1,2-Dichloroethane-d4 (S)	%						107	107	70-130			
4-Bromofluorobenzene (S)	%						103	103	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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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### QUALITY CONTROL DATA

Project: Colonial Northstone (2/26/21)  
Pace Project No.: 92524638

QC Batch: 603564      Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D      Analysis Description: 8260D MSV Low Level  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92524638011

METHOD BLANK: 3179667      Matrix: Water  
Associated Lab Samples: 92524638011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/01/21 14:22	
Ethylbenzene	ug/L	ND	1.0	03/01/21 14:22	
m&p-Xylene	ug/L	ND	2.0	03/01/21 14:22	
o-Xylene	ug/L	ND	1.0	03/01/21 14:22	
Toluene	ug/L	ND	1.0	03/01/21 14:22	
Xylene (Total)	ug/L	ND	1.0	03/01/21 14:22	
1,2-Dichloroethane-d4 (S)	%	106	70-130	03/01/21 14:22	
4-Bromofluorobenzene (S)	%	101	70-130	03/01/21 14:22	
Toluene-d8 (S)	%	101	70-130	03/01/21 14:22	

LABORATORY CONTROL SAMPLE & LCSD: 3179668      3179669

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	52.5	51.5	105	103	70-130	2	30	
Ethylbenzene	ug/L	50	53.5	53.0	107	106	70-130	1	30	
m&p-Xylene	ug/L	100	107	104	107	104	70-130	3	30	
o-Xylene	ug/L	50	54.0	53.0	108	106	70-130	2	30	
Toluene	ug/L	50	53.2	51.7	106	103	70-130	3	30	
Xylene (Total)	ug/L	150	161	158	108	105	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%				93	96	70-130			
4-Bromofluorobenzene (S)	%				100	101	70-130			
Toluene-d8 (S)	%				98	99	70-130			

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: Colonial Northstone (2/26/21)

Pace Project No.: 92524638

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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.

### ANALYTE QUALIFIERS

T3 Insufficient sample received from client to perform the analysis per EPA method requirements.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Northstone (2/26/21)  
Pace Project No.: 92524638

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524638001	21057-SW-1	EPA 5030B/8015C Mod.	603364		
92524638002	21057-SW-2	EPA 5030B/8015C Mod.	603364		
92524638003	21057-SW-3	EPA 5030B/8015C Mod.	603364		
92524638004	21057-SW-4	EPA 5030B/8015C Mod.	603364		
92524638005	21057-SW-5	EPA 5030B/8015C Mod.	603364		
92524638006	21057-SW-6	EPA 5030B/8015C Mod.	603364		
92524638007	21057-SW-7	EPA 5030B/8015C Mod.	603364		
92524638008	21057-SW-DUP	EPA 5030B/8015C Mod.	603364		
92524638009	21057-SW-Confluence	EPA 5030B/8015C Mod.	603364		
92524638010	21057-SW-Seep	EPA 5030B/8015C Mod.	603364		
92524638001	21057-SW-1	EPA 8260D	603261		
92524638002	21057-SW-2	EPA 8260D	603261		
92524638003	21057-SW-3	EPA 8260D	603261		
92524638004	21057-SW-4	EPA 8260D	603261		
92524638005	21057-SW-5	EPA 8260D	603261		
92524638006	21057-SW-6	EPA 8260D	603261		
92524638007	21057-SW-7	EPA 8260D	603261		
92524638008	21057-SW-DUP	EPA 8260D	603261		
92524638009	21057-SW-Confluence	EPA 8260D	603261		
92524638010	21057-SW-Seep	EPA 8260D	603261		
92524638011	21057-Trip Blank	EPA 8260D	603564		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **Montrose - EPS** Billing Information: **400 Northridge Rd, Suite 400**  
 Address: **400 Northridge Rd, Suite 400** Email To: **Sandy Springs, GA 30330**  
 Report To: **CF-CATES@montrose-env.com** Email To: **afesto@montrose-env.com**  
 Copy To: **CF-CATES@montrose-env.com / pakillman@montrose-env.com** Site Collection Info/Address:

Customer Project Name/Number: **Colonial Northshore / 070PP-785322** State: **NC** County/City: **Huntersville** Time Zone Collected: **MT**  
 Phone: **404-315-9113** Site/Facility ID #: **NC / Huntersville** Compliance Monitoring? **[ ] Yes [ ] No**  
 Email: **afesto@montrose-env.com** Purchase Order #: **DW PWS ID #:** **DW Location Code:**  
 Collected By (print): **Gum Cole Cates** Quote #: **Turnaround Date Required:** **Immediately Packed on Ice:**  
 Collected By (signature): **Gum Cole Cates** Rush: **[ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day** Field Filtered (if applicable): **[ ] Yes [ ] No**  
 Sample Disposal: **[ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold** Analysis: **[ ] Yes [ ] No**

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected for Composite Start		Composite End		Res	# of Chns
			Date	Time	Date	Time		
21057-SU-1	SU	G	2/26/21	1420			G	X
21057-SU-2	SU	G	2/26/21	1430			G	X
21057-SU-3	SU	G	2/26/21	1445			G	X
21057-SU-4	SU	G	2/26/21	1515			G	X
21057-SU-5	SU	G	2/26/21	1535			G	X
21057-SU-6	SU	G	2/26/21	1545			G	X
21057-SU-7	SU	G	2/26/21	1600			G	X
21057-SU-DIP	SU	G	2/26/21	1200			G	X
21057-SU-Confidence	SU	G	2/26/21	1355			G	X
21057-SU-Sols	SU	G	2/26/21	1350			G	X

Customer Remarks / Special Conditions / Possible Hazards:  
**G = Grab**  
**SU = Surface Water**

Relinquished by/Company: (Signature) **Col Cates** Date/Time: **2/26/21 1702** Received by/Company: (Signature) **MDL Research** Date/Time: **2/26/21 1702**  
 Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

LAB USE  
**MO# : 92524638**  
**92524638**

LAB USE ONLY:  
 Lab Sample #: **92524638**  
 Comments:

Lab Profile/Line:  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact **Y** **NA**  
 Custody Signatures Present **Y** **NA**  
 Collector Signatures Present **Y** **NA**  
 Bottles Intact **Y** **NA**  
 Correct Bottles **Y** **NA**  
 Sufficient Volume **Y** **NA**  
 Samples Received on Ice **Y** **NA**  
 VOA - Headspace Acceptable **Y** **NA**  
 USDA Regulated Soils Samples in Holding Time **Y** **NA**  
 Residual Chlorine Present **Y** **NA**  
 CI Strips: **Y** **NA**  
 Sample pH Acceptable **Y** **NA**  
 pH Strips: **Y** **NA**  
 Sulfide Present **Y** **NA**  
 Lead Acetate Strips: **Y** **NA**

Lab Tracking #: **2615754**  
 Samples received via: **FEDEX UPS** Client: **Pace Courier**  
 Courier: **Pace Courier**  
 Table #: **MTL LAB USE ONLY**  
 Acctnum:  
 Template:  
 Prelog-in:  
 PM:  
 PB:

March 17, 2021

Alex Testoff  
Montrose Environmental Group, Inc.  
400 Northridge Rd.  
Suite 400  
Atlanta, GA 30350

RE: Project: Colonial Northstone (3/10/21)  
Pace Project No.: 92527033

Dear Alex Testoff:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company  
Robert Hughes, Colonial Pipeline Company  
Margaret King, APEX Companies, LLC  
Cam Lee, Montrose Environmental Group  
Jeff Morrison, Colonial Pipeline Company  
Nicholas Nelson, Montrose Environmental Group, Inc.  
Andrew Street, Apex Companies - NC  
J Tate, Colonial Pipeline Company  
JM Wyatt, Colonial Pipeline Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Colonial Northstone (3/10/21)  
Pace Project No.: 92527033

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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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Colonial Northstone (3/10/21)  
Pace Project No.: 92527033

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527033001	21069-SW-1	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033002	21069-SW-2	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033003	21069-SW-3	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033004	21069-SW-4	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033005	21069-SW-5	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033006	21069-SW-6	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033007	21069-SW-7	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033008	21069-SW-Seep	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033009	21069-SW-Cofluence	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033010	21069-SW-DUP	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033011	21069-SW-Seep 2	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033012	21069-SW-Confluence 2	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92527033013	21069-Trip Blank	EPA 8260D	PM1	9	PASI-C

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

Sample: 21069-SW-1	Lab ID: 92527033001	Collected: 03/10/21 15:55		Received: 03/10/21 17:41		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/11/21 15:39		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	88	%	70-130	1		03/11/21 15:39	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/12/21 15:37	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 15:37	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 15:37	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 15:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 15:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 15:37	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		03/12/21 15:37	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		03/12/21 15:37	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 15:37	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

Sample: 21069-SW-2	Lab ID: 92527033002	Collected: 03/10/21 15:40		Received: 03/10/21 17:41		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/11/21 16:35		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	87	%	70-130	1		03/11/21 16:35	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/12/21 15:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 15:55	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 15:55	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 15:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 15:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 15:55	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		03/12/21 15:55	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/12/21 15:55	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 15:55	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 21069-SW-3</b>								
<b>Lab ID: 92527033003</b>								
Collected: 03/10/21 15:30 Received: 03/10/21 17:41 Matrix: Water								
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 5030B/8015C Mod.								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/11/21 17:03		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	88	%	70-130	1		03/11/21 17:03	460-00-4	
<b>8260D MSV Low Level</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		03/12/21 16:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 16:13	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 16:13	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 16:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 16:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 16:13	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		03/12/21 16:13	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/12/21 16:13	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 16:13	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

Sample: 21069-SW-4	Lab ID: 92527033004	Collected: 03/10/21 16:05		Received: 03/10/21 17:41		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/11/21 17:31		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	85	%	70-130	1		03/11/21 17:31	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/12/21 16:32	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 16:32	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 16:32	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 16:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 16:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 16:32	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		03/12/21 16:32	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/12/21 16:32	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 16:32	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 21069-SW-5</b>								
<b>Lab ID: 92527033005</b>								
Collected: 03/10/21 16:20								
Received: 03/10/21 17:41								
Matrix: Water								
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 5030B/8015C Mod.								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/11/21 18:00		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	88	%	70-130	1		03/11/21 18:00	460-00-4	
<b>8260D MSV Low Level</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		03/12/21 16:50	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 16:50	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 16:50	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 16:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 16:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 16:50	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		03/12/21 16:50	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		03/12/21 16:50	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 16:50	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)  
Pace Project No.: 92527033

Sample: 21069-SW-6	Lab ID: 92527033006	Collected: 03/10/21 16:40	Received: 03/10/21 17:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/11/21 18:28		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	84	%	70-130	1		03/11/21 18:28	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/12/21 17:08	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 17:08	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 17:08	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 17:08	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 17:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 17:08	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	93	%	70-130	1		03/12/21 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/12/21 17:08	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 17:08	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)  
Pace Project No.: 92527033

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 21069-SW-7</b>								
<b>Lab ID: 92527033007</b>								
Collected: 03/10/21 17:00 Received: 03/10/21 17:41 Matrix: Water								
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 5030B/8015C Mod.								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/11/21 18:56		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	88	%	70-130	1		03/11/21 18:56	460-00-4	
<b>8260D MSV Low Level</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		03/12/21 17:26	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 17:26	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 17:26	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 17:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 17:26	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 17:26	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		03/12/21 17:26	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		03/12/21 17:26	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 17:26	2037-26-5	

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### ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

Sample: 21069-SW-Seep	Lab ID: 92527033008	Collected: 03/10/21 13:55	Received: 03/10/21 17:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/11/21 19:24		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	89	%	70-130	1		03/11/21 19:24	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/12/21 17:44	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 17:44	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 17:44	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 17:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 17:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 17:44	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		03/12/21 17:44	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/12/21 17:44	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 17:44	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

<b>Sample: 21069-SW-Cofluence</b>		<b>Lab ID: 92527033009</b>		Collected: 03/10/21 14:00	Received: 03/10/21 17:41	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/12/21 14:41		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	86	%	70-130	1		03/12/21 14:41	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/12/21 18:02	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 18:02	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 18:02	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 18:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 18:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 18:02	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		03/12/21 18:02	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/12/21 18:02	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		03/12/21 18:02	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

Sample: 21069-SW-DUP	Lab ID: 92527033010	Collected: 03/10/21 12:00		Received: 03/10/21 17:41		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/12/21 15:37		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	90	%	70-130	1		03/12/21 15:37	460-00-4	
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/12/21 18:20	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 18:20	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 18:20	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 18:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 18:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 18:20	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	94	%	70-130	1		03/12/21 18:20	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/12/21 18:20	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 18:20	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 21069-SW-Seep 2</b>								
<b>Lab ID: 92527033011</b>								
Collected: 03/10/21 14:45 Received: 03/10/21 17:41 Matrix: Water								
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 5030B/8015C Mod.								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/12/21 16:05		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	85	%	70-130	1		03/12/21 16:05	460-00-4	
<b>8260D MSV Low Level</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		03/12/21 18:38	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 18:38	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 18:38	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 18:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 18:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 18:38	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		03/12/21 18:38	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/12/21 18:38	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/12/21 18:38	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)  
Pace Project No.: 92527033

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 21069-SW-Confluence 2      Lab ID: 92527033012      Collected: 03/10/21 14:35      Received: 03/10/21 17:41      Matrix: Water</b>								
<b>Gasoline Range Organics</b>								
Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		03/12/21 16:34		
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	90	%	70-130	1		03/12/21 16:34	460-00-4	
<b>8260D MSV Low Level</b>								
Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		03/12/21 18:56	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 18:56	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 18:56	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 18:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 18:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 18:56	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		03/12/21 18:56	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/12/21 18:56	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		03/12/21 18:56	2037-26-5	

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## ANALYTICAL RESULTS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

Sample: 21069-Trip Blank		Lab ID: 92527033013		Collected: 03/10/21 00:00	Received: 03/10/21 17:41	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D MSV Low Level</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		03/12/21 14:25	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/21 14:25	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/21 14:25	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		03/12/21 14:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/12/21 14:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/12/21 14:25	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		03/12/21 14:25	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/12/21 14:25	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/12/21 14:25	2037-26-5	

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### QUALITY CONTROL DATA

Project: Colonial Northstone (3/10/21)  
Pace Project No.: 92527033

QC Batch:	605940	Analysis Method:	EPA 5030B/8015C Mod.
QC Batch Method:	EPA 5030B/8015C Mod.	Analysis Description:	Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92527033001, 92527033002, 92527033003, 92527033004, 92527033005, 92527033006, 92527033007, 92527033008

METHOD BLANK: 3192290 Matrix: Water  
Associated Lab Samples: 92527033001, 92527033002, 92527033003, 92527033004, 92527033005, 92527033006, 92527033007, 92527033008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	03/11/21 14:42	
4-Bromofluorobenzene (S)	%	85	70-130	03/11/21 14:42	

LABORATORY CONTROL SAMPLE: 3192291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	0.94	94	70-130	
4-Bromofluorobenzene (S)	%			89	70-130	

MATRIX SPIKE SAMPLE: 3192293

Parameter	Units	92527033002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	1	0.96	94	68-145	
4-Bromofluorobenzene (S)	%				91	70-130	

SAMPLE DUPLICATE: 3192292

Parameter	Units	92527033001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	.019J		
4-Bromofluorobenzene (S)	%	88	87		

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### QUALITY CONTROL DATA

Project: Colonial Northstone (3/10/21)  
Pace Project No.: 92527033

QC Batch: 606277 Analysis Method: EPA 5030B/8015C Mod.  
QC Batch Method: EPA 5030B/8015C Mod. Analysis Description: Gasoline Range Organics  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92527033009, 92527033010, 92527033011, 92527033012

METHOD BLANK: 3194058 Matrix: Water  
Associated Lab Samples: 92527033009, 92527033010, 92527033011, 92527033012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	03/12/21 13:45	
4-Bromofluorobenzene (S)	%	86	70-130	03/12/21 13:45	

LABORATORY CONTROL SAMPLE: 3194059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	0.95	95	70-130	
4-Bromofluorobenzene (S)	%			90	70-130	

MATRIX SPIKE SAMPLE: 3194061

Parameter	Units	92527033010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	1	0.97	95	68-145	
4-Bromofluorobenzene (S)	%				91	70-130	

SAMPLE DUPLICATE: 3194060

Parameter	Units	92527033009 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	ND		
4-Bromofluorobenzene (S)	%	86	86		

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### QUALITY CONTROL DATA

Project: Colonial Northstone (3/10/21)  
Pace Project No.: 92527033

QC Batch: 606095 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92527033001, 92527033002, 92527033003, 92527033004, 92527033005, 92527033006, 92527033007, 92527033008, 92527033009, 92527033010, 92527033011, 92527033012, 92527033013

METHOD BLANK: 3193292 Matrix: Water  
Associated Lab Samples: 92527033001, 92527033002, 92527033003, 92527033004, 92527033005, 92527033006, 92527033007, 92527033008, 92527033009, 92527033010, 92527033011, 92527033012, 92527033013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/12/21 14:07	
Ethylbenzene	ug/L	ND	1.0	03/12/21 14:07	
m&p-Xylene	ug/L	ND	2.0	03/12/21 14:07	
o-Xylene	ug/L	ND	1.0	03/12/21 14:07	
Toluene	ug/L	ND	1.0	03/12/21 14:07	
Xylene (Total)	ug/L	ND	1.0	03/12/21 14:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/12/21 14:07	
4-Bromofluorobenzene (S)	%	99	70-130	03/12/21 14:07	
Toluene-d8 (S)	%	101	70-130	03/12/21 14:07	

LABORATORY CONTROL SAMPLE: 3193293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	50.8	102	70-130	
Ethylbenzene	ug/L	50	51.9	104	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
o-Xylene	ug/L	50	50.9	102	70-130	
Toluene	ug/L	50	49.3	99	70-130	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193294 3193295

Parameter	Units	92526104005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result					
Benzene	ug/L	ND	250	250	273	270	109	108	67-150	1	
Ethylbenzene	ug/L	ND	250	250	272	268	109	107	68-143	1	
m&p-Xylene	ug/L	ND	500	500	542	539	108	108	53-157	0	
o-Xylene	ug/L	ND	250	250	265	264	106	106	68-143	0	
Toluene	ug/L	ND	250	250	261	258	104	103	47-157	1	
Xylene (Total)	ug/L	ND	750	750	807	803	108	107	66-145	0	
1,2-Dichloroethane-d4 (S)	%						101	102	70-130		
4-Bromofluorobenzene (S)	%						98	100	70-130		
Toluene-d8 (S)	%						98	98	70-130		

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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without the written consent of Pace Analytical Services, LLC.

## QUALIFIERS

Project: Colonial Northstone (3/10/21)

Pace Project No.: 92527033

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Northstone (3/10/21)  
Pace Project No.: 92527033

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527033001	21069-SW-1	EPA 5030B/8015C Mod.	605940		
92527033002	21069-SW-2	EPA 5030B/8015C Mod.	605940		
92527033003	21069-SW-3	EPA 5030B/8015C Mod.	605940		
92527033004	21069-SW-4	EPA 5030B/8015C Mod.	605940		
92527033005	21069-SW-5	EPA 5030B/8015C Mod.	605940		
92527033006	21069-SW-6	EPA 5030B/8015C Mod.	605940		
92527033007	21069-SW-7	EPA 5030B/8015C Mod.	605940		
92527033008	21069-SW-Seep	EPA 5030B/8015C Mod.	605940		
92527033009	21069-SW-Cofluence	EPA 5030B/8015C Mod.	606277		
92527033010	21069-SW-DUP	EPA 5030B/8015C Mod.	606277		
92527033011	21069-SW-Seep 2	EPA 5030B/8015C Mod.	606277		
92527033012	21069-SW-Cofluence 2	EPA 5030B/8015C Mod.	606277		
92527033001	21069-SW-1	EPA 8260D	606095		
92527033002	21069-SW-2	EPA 8260D	606095		
92527033003	21069-SW-3	EPA 8260D	606095		
92527033004	21069-SW-4	EPA 8260D	606095		
92527033005	21069-SW-5	EPA 8260D	606095		
92527033006	21069-SW-6	EPA 8260D	606095		
92527033007	21069-SW-7	EPA 8260D	606095		
92527033008	21069-SW-Seep	EPA 8260D	606095		
92527033009	21069-SW-Cofluence	EPA 8260D	606095		
92527033010	21069-SW-DUP	EPA 8260D	606095		
92527033011	21069-SW-Seep 2	EPA 8260D	606095		
92527033012	21069-SW-Cofluence 2	EPA 8260D	606095		
92527033013	21069-Trip Blank	EPA 8260D	606095		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **Montrose - EPS**

Address: **406 Northridge Rd**

Report To: **Atestoff@Montrose-env.com**

Copy To: **Cleo@Montrose-env.com**

Customer Project Name/Number: **Proj-002116**

Phone: **404/315-9113**

Collected By (print): **Amoron Lee**

Collected By (signature): *Amoron Lee*

Sample Disposal:  Dispose as appropriate  Return  Archive  Hold

Turnaround Date Required:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Billing Information: **406 Northridge Rd**

Email To: **Sandy Springs, GA 30350**

Site Collection Info/Address: **CFCates@Montrose-env.com**

State: **NC** Country/City: **Huntersville**

Time Zone Collected: **PT**

Compliance Monitoring?  Yes  No

DW PWS ID #:  Yes  No

DW Location Code:  Yes  No

Field Filtered (if applicable):  Yes  No

Analysis:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Expedite Charges Apply:  Yes  No

Res Cl # of Ctns

Matrix \* **SW**

Comp / Grab **3/10/21 1555**

Collected (or Composite Start) Date Time **3/10/21 1540**

Composite End Date Time **3/10/21 1530**

Grab **3/10/21 1605**

Grab **3/10/21 1620**

Grab **3/10/21 1640**

Grab **3/10/21 1700**

Grab **3/10/21 1355**

Grab **3/10/21 1400**

Grab **3/10/21 1200**

Type of Ice Used: **Wet**

Packing Material Used: **h.b.**

Radchem sample(s) screened (<500 cpm): **Y N NA**

Received by/Company: (Signature) *[Signature]*

Date/Time: **3/10/21 17:41**

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

LAB USE ONLY - Affix Workorder/Chain Label Here or List Pace Workorder Number or

ALL SHADED

Container Preservative Type \* **3 3**

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (v) other



W# : 92527033

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Collector Signatures Present	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Collector Signature Present	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles Intact	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct Bottles	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient Volume	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Samples Received on Ice	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
VDA - Headspace Acceptable	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
USA Regulated Soils	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Samples in Holding Time	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Residual Chlorine Present	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sample pH Acceptable	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
pH Strips:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sulfide Present	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Lead Acetate Strips:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

LAB USE ONLY: Lab Sample # / Comments: **92527033**

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date Time	Composite End Date Time	Res Cl	# of Ctns
21069-SW-1	SW	Grab	3/10/21 1555			6
21069-SW-2	SW	Grab	3/10/21 1540			6
21069-SW-3	SW	Grab	3/10/21 1530			6
21069-SW-4	SW	Grab	3/10/21 1605			6
21069-SW-5	SW	Grab	3/10/21 1620			6
21069-SW-6	SW	Grab	3/10/21 1640			6
21069-SW-7	SW	Grab	3/10/21 1700			6
21069-SW-Seed	SW	Grab	3/10/21 1355			6
21069-SW-Confluence	SW	Grab	3/10/21 1400			6
21069-SW-DIIP	SW	Grab	3/10/21 1200			6

LAB USE ONLY: Lab Sample Temperature Info:

Temp Blank Received:  Y  N

Temp ID#: **927033**

Cooler 1 Temp Upon Receipt: **24.4**

Cooler 1 Therm Corr. Factor: **0.03**

Cooler 1 Corrected Temp: **24.406**

Comments: **24.4, 20.0, 21.0**

Table #: **MTLL LAB USE ONLY**

Acturn: **Client**

Template: **Client**

Prelogin: **Client**

PW: **Client**

PB: **Client**

Non Conformance(s): **YES / NO**

Page: **1** of **1**

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **Montrose - EPS**  
 Billing Information: **400 Northridge Rd, Suite 400**  
**Sandy Springs, GA 30350**

Address: **Montrose - EPS**  
 Email to: **Montrose - ew.com**  
 Site Collection Info/Address: **Heisterville, VA**

Report To: **Montrose - ew.com**  
 Copy To: **Montrose - ew.com**  
 Customer Project Name/Number: **Proj - 002116**  
 State: **NC** County/City: **[ ] PT [ ] MT [ ] CT [ ] ET**

Phone: \_\_\_\_\_ Site/Facility ID #: \_\_\_\_\_  
 Email: \_\_\_\_\_ Compliance Monitoring?  Yes  No  
 Collected By (print): **Cam** Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_  
 Quote #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_

Collected By (signature): **Cam** Turnaround Date Required: \_\_\_\_\_  
 Sample Disposal:  Dispose as appropriate  Return  Same Day  Next Day  Field Filtered (if applicable):  
 Archive: \_\_\_\_\_  2 Day  3 Day  4 Day  5 Day  Yes  No  
 Hold: \_\_\_\_\_ (Expedite Charges Apply) Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res / # of Ctns
			Date	Time	Date	Time	
21069-SU-Soap 2	SU	G	3/10/21	1445			G → X
21069-SU-Confilover 2	SU	G	3/10/21	1435			G → X
21069-TipBlank	W	LAIS	3/10/21	1413			2 → X

Customer Remarks / Special Conditions / Possible Hazards: **SU = Surface Water**  
**G = Grab W = Water**

Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/10/21**  
 Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/10/21**  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

LAB USE ONLY - Affix Workorder/LogID  
 MTLL LC  
**W0# : 92527033**  
 PM: **NMG** Due Date: **03/16/21**  
 CLIENT: **92-MontEnvgr**

Container Preservative Type \*\*  
**3 3**  
 Analyses  
 \*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other \_\_\_\_\_

SHORT HOLDS PRESENT (<72 hours):	Y	N	N/A
Lab Tracking #: <b>2538645</b>			
Samples received via: <b>Client</b>			
FEDEX UPS			
Courier <b>Pace Courier</b>			
MTLL LAB USE ONLY			

Lab Sample Temperature Info:  
 Temp Blank Received:  Y  N  NA  
 Therm ID#: **927033**  
 Cooler 1 Temp Upon Receipt: **0.6** °C  
 Cooler 1 Therm Corr. Factor: **0.6** °C  
 Cooler 1 Corrected Temp: **0.0** °C  
 Comments: \_\_\_\_\_

Lab Profile/Line: \_\_\_\_\_  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact:  Y  N  NA  
 Custody Signatures Present:  Y  N  NA  
 Collector Signature Present:  Y  N  NA  
 Bottles Intact:  Y  N  NA  
 Correct Bottles:  Y  N  NA  
 Sufficient Volume:  Y  N  NA  
 Samples Received on Ice:  Y  N  NA  
 VOA - Headspace Acceptable:  Y  N  NA  
 USDA Regulated Soils:  Y  N  NA  
 Samples in Holding Time:  Y  N  NA  
 Residual Chlorine Present:  Y  N  NA  
 Cl Strips:  Y  N  NA  
 Sample pH Acceptable:  Y  N  NA  
 pH Strips:  Y  N  NA  
 Sulfide Present:  Y  N  NA  
 Lead Acetate Strips:  Y  N  NA

LAB USE ONLY:  
 Lab Sample # / Comments: **92527033**  
**01**  
**012**  
**013**

Non Conformance(s): \_\_\_\_\_ Page: \_\_\_\_\_ of: \_\_\_\_\_  
 YES / NO

**APPENDIX B**  
**BORING LOGS AND GW-1 FORMS**



Apex Companies

# BORING NUMBER MW-07D

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 11/6/2020 **COMPLETED** 11/15/2020 **GROUND ELEVATION** 708.43 ft **TOP OF CASING** 711.73 ft  
**DRILLING CONTRACTOR** HD Drilling / Parrot-Wolf **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:** \_\_\_\_\_  
**LOGGED BY** Kyle Zigler / John Streck **BOREHOLE DIAMETER** 8.1 / 4 in. **DURING DRILLING** ---  
**METHOD** Sonic **AFTER DRILLING** 26.38 ft / Elev 682.05 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						Casing Type: 4
10	SC 1	PID = 1.2 PID = 2.3	7.5	LEAN CLAY, SILTY CLAY, (CL) dark red 2.5YR 3/6, moist, stiff, low plasticity, saprolite, mica		700.9
20	SC 2	PID = 1.7 PID = 1.8 PID = 2.7 PID = 1.8	17.5 20.0	SILT, CLAYEY SILT, (ML) red 2.5YR 5/8, moist, trace sand, saprolite, mica	drilling stop on 6 Nov, restart on 7 Nov at 20 feet bgs	690.9 688.4
30	SC 3	PID = 2.3 PID = 2.8 PID = 0 PID = 0	27.5	SILTY SAND, SILTY SAND, (SM) gray brown 10YR 5/2, moist, saprolite, quartz, mica, banding		680.9
40	SC 4	PID = 0.1 PID = 0.1 PID = 0.9 PID = 0.4		SILT, SILT, (ML) gray 10YR 5/1, moist, with sand, trace clay, saprolite		
50	SC 5	PID = 0.5 PID = 0	50.0	POORLY GRADED SAND, SAND, (SP-SM) dark yellow brown 10YR 4/4, dry, with silt, saprolite	increasing sand content 50-60 feet bgs	658.4
60	SC 6	PID = 0.1 PID = 0.8 PID = 0 PID = 0	57.5 60.0	POORLY GRADED SAND, SAND, (SP-SC) dark gray 10YR 3/1, moist, with clay, no odor, saprolite	drilling resistance indicates bedrock at 68 feet bgs	650.9 648.4
70	SC 7	PID = 0.9 PID = 1.5 PID = 0.8 PID = 0.3	68.0	POORLY GRADED SAND, SAND, (SP-SC) gray 10YR 5/1, moist, with clay, no odor, saprolite		640.4
90				DIORITE, highly weathered, [Quartz Diorite]	air-lift yield 1 gpm	
100				DIORITE, [Quartz Diorite]	air-lift yield 1 gpm	
140.0-140.5					140.0-140.5 feet bgs soft zone	
					possible water-bearing zone	
173.0					Bottom of borehole at 173.0 feet.	535.4

CPC\_HUNTERSVILLE\_BH\_MW - GINT STD US LAB.GDT - 3/21/21 13:23 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC\_HUNTERSVILLE.GPJ

# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Francis Xavier Harrington  
Well Contractor Name

4389 A  
NC Well Contractor Certification Number

Walker Hill Environmental  
Company Name

2. Well Construction Permit #: \_\_\_\_\_  
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

**Water Supply Well:**

Agricultural  Municipal/Public

Geothermal (Heating/Cooling Supply)  Residential Water Supply (single)

Industrial/Commercial  Residential Water Supply (shared)

Irrigation

**Non-Water Supply Well:**

Monitoring  Recovery

**Injection Well:**

Aquifer Recharge  Groundwater Remediation

Aquifer Storage and Recovery  Salinity Barrier

Aquifer Test  Stormwater Drainage

Experimental Technology  Subsidence Control

Geothermal (Closed Loop)  Tracer

Geothermal (Heating/Cooling Return)  Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/7/2020 Well ID# MW-070

5a. Well Location:

Colonial Pipeline  
Facility/Owner Name

Huntersville - Concord Rd, Huntersville  
Physical Address, City, and Zip 28098

mecklenburg  
County

01940102  
Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees: (if well field, one lat/long is sufficient)

611005.713 N 1462052.096 W

6. Is(are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 78 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+"

11. Borehole diameter: 8 (in.)

12. Well construction method: Sonic  
(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**

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
<u>+3</u> ft.	<u>78</u> ft.	<u>4</u> in.	<u>Sch 40</u>	<u>PVC</u>

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

**17. SCREEN**

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
ft.	ft.	in.			
ft.	ft.	in.			

**18. GROUT**

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
<u>0</u> ft.	<u>78</u> ft.	<u>Cement</u>	<u>Trimmie / 23-Bags</u>
ft.	ft.		
ft.	ft.		

**19. SAND/GRAVEL PACK (if applicable)**

FROM	TO	MATERIAL	EMPLACEMENT METHOD
ft.	ft.		
ft.	ft.		

**20. DRILLING LOG (attach additional sheets if necessary)**

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
<u>0</u> ft.	<u>7.5</u> ft.	<u>Dark Red Silty Clay</u>
<u>7.5</u> ft.	<u>17.5</u> ft.	<u>Red Clayey Silt</u>
<u>17.5</u> ft.	<u>20</u> ft.	<u>Gray Brown Silty Sand</u>
<u>20</u> ft.	<u>27.5</u> ft.	<u>Gray Silt</u>
<u>27.5</u> ft.	<u>60</u> ft.	<u>Dark Gray Sand</u>
<u>60</u> ft.	<u>68</u> ft.	<u>Highly weathered Diorite</u>
<u>68</u> ft.	<u>78</u> ft.	<u>Diorite</u>

**21. REMARKS:**  
Surface casing

22. Certification:

Francis Xavier Harrington 12/7/2020  
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.



Apex Companies

# BORING NUMBER MW-36D

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 11/10/2020 **COMPLETED** 11/17/2020 **GROUND ELEVATION** 707.87 ft **TOP OF CASING** 710.81 ft  
**DRILLING CONTRACTOR** HD Drilling / Parrot-Wolf **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Zigler / Bill Jones **BOREHOLE DIAMETER** 8.1 / 4 in. **DURING DRILLING** ---  
**METHOD** Sonic **AFTER DRILLING** 21.81 ft / Elev 686.06 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						Casing Type: 4
10						
20						
30						
40						4-in. Sch. 40 PVC surface isolation casing
50						
60						
70				DIORITE, unweathered, gray	drilling resistance indicates bedrock at 70 feet bgs	Portland type I/II grout with 6% bentonite
80						
90						
100						
110						4-in. open borehole
120						
130						
140				Bottom of borehole at 140.0 feet.	minor water-bearing zone	

CPC\_HUNTERSVILLE\_BH\_MW - GINT STD US LAB.GDT - 3/21/21 13:24 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\OPC\_HUNTERSVILLE.GPJ

# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Francis Xavier Harrington  
Well Contractor Name  
4389 A  
NC Well Contractor Certification Number

Walker Hill Environmental  
Company Name

2. Well Construction Permit #: \_\_\_\_\_  
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

## 3. Well Use (check well use):

<b>Water Supply Well:</b>	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
<b>Non-Water Supply Well:</b>	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
<b>Injection Well:</b>	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/10/2020 Well ID# mw-360

5a. Well Location:  
Colonial Pipeline  
Facility/Owner Name  
Huntersville - Concord Rd, Huntersville  
Physical Address, City, and Zip  
mecklenburg 28098  
County Parcel Identification No. (PIN) 01940102

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)  
610906.414 N 1461745.138 W

6. Is(are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 80 (ft.)  
For multiple wells list all depths (if different - example - 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+"

11. Borehole diameter: 8 (in.)

12. Well construction method: Sonic  
(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					
FROM	TO	DESCRIPTION			
ft.	ft.				
ft.	ft.				
15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
<u>+3</u> ft.	<u>80</u> ft.	<u>4</u> in.	<u>Sch 40</u>	<u>PVC</u>	
16. INNER CASING OR TUBING (geothermal-closed-loop)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
ft.	ft.	in.			
ft.	ft.	in.			
17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
ft.	ft.	in.			
ft.	ft.	in.			
18. GROUT					
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT		
<u>0</u> ft.	<u>80</u> ft.	<u>Cement</u>	<u>Trimmic / 27-Bags</u>		
ft.	ft.				
ft.	ft.				
19. SAND/GRAVEL PACK (if applicable)					
FROM	TO	MATERIAL	EMPLACEMENT METHOD		
ft.	ft.				
ft.	ft.				
20. DRILLING LOG (attach additional sheets if necessary)					
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)			
<u>0</u> ft.	<u>70</u> ft.	<u>NO Stratigraphic Logging</u>			
<u>70</u> ft.	<u>80</u> ft.	<u>Diorite</u>			
ft.	ft.				
ft.	ft.				
ft.	ft.				
ft.	ft.				
ft.	ft.				
21. REMARKS					
<u>Surface Casing</u>					

## 22. Certification:

Francis Xavier Harrington 12/7/2020  
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.



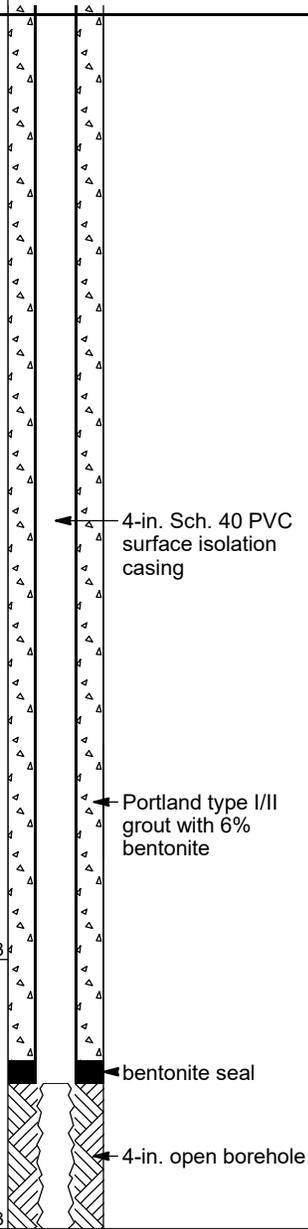
Apex Companies

# BORING NUMBER MW-57D

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 11/8/2020 **COMPLETED** 11/20/2020 **GROUND ELEVATION** 683.26 ft **TOP OF CASING** 686.44 ft  
**DRILLING CONTRACTOR** HD Drilling / Parrot-Wolf **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Tommy Fisher **BOREHOLE DIAMETER** 8.1 / 4 in. **DURING DRILLING** ---  
**METHOD** Sonic / Air Rotary 3-7/8 **AFTER DRILLING** 8.25 ft / Elev 675.01 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0				no stratigraphic logging	initially identified as PDW-11	
10						
20						
30						
40						
50						
60						
70						
80						
84.0					drilling resistance indicates bedrock at 84 feet bgs	
84.0				DIORITE, unweathered, gray, [Quartz Diorite] quartz fragments		
90						
94					break in drilling overnight at 94 feet bgs	
97.5-98.5					water-bearing zone	
108.0						
				Bottom of borehole at 108.0 feet.		

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# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Francis Xavier Harrington  
Well Contractor Name

4389 A  
NC Well Contractor Certification Number

Walker Hill Environmental  
Company Name

2. Well Construction Permit #: \_\_\_\_\_  
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

## 3. Well Use (check well use):

Water Supply Well:

Agricultural  Municipal/Public

Geothermal (Heating/Cooling Supply)  Residential Water Supply (single)

Industrial/Commercial  Residential Water Supply (shared)

Irrigation

Non-Water Supply Well:

Monitoring  Recovery

Injection Well:

Aquifer Recharge  Groundwater Remediation

Aquifer Storage and Recovery  Salinity Barrier

Aquifer Test  Stormwater Drainage

Experimental Technology  Subsidence Control

Geothermal (Closed Loop)  Tracer

Geothermal (Heating/Cooling Return)  Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/9/2020 Well ID# mw-570

5a. Well Location:

Colonial Pipeline  
Facility/Owner Name

Huntersville - Concord Rd, Huntersville  
Physical Address, City, and Zip 28098

mecklenburg  
County

01940102  
Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)

611250.689 N 1461486.487 W

6. Is (are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 94 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+"

11. Borehole diameter: 8 (in.)

12. Well construction method: Sonic  
(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					
FROM	TO	DESCRIPTION			
ft.	ft.				
ft.	ft.				
15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
<u>+3</u> ft.	<u>94</u> ft.	<u>4</u> in.	<u>Sch 40</u>	<u>PVC</u>	
16. INNER CASING OR TUBING (geothermal closed-loop)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
ft.	ft.				
ft.	ft.				
17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
ft.	ft.				
ft.	ft.				
18. GROUT					
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT		
<u>0</u> ft.	<u>94</u> ft.	<u>Cement</u>	<u>Trimmie 124-Bags</u>		
ft.	ft.				
ft.	ft.				
19. SAND/GRAVEL PACK (if applicable)					
FROM	TO	MATERIAL	EMPLACEMENT METHOD		
ft.	ft.				
ft.	ft.				
20. DRILLING LOG (attach additional sheets if necessary)					
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)			
<u>0</u> ft.	<u>84</u> ft.	<u>No Stratigraphic Logging</u>			
<u>84</u> ft.	<u>94</u> ft.	<u>Diorite</u>			
ft.	ft.				
ft.	ft.				
ft.	ft.				
ft.	ft.				
ft.	ft.				
21. REMARKS					

## 22. Certification:

Francis Xavier Harrington 12/7/2020  
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.



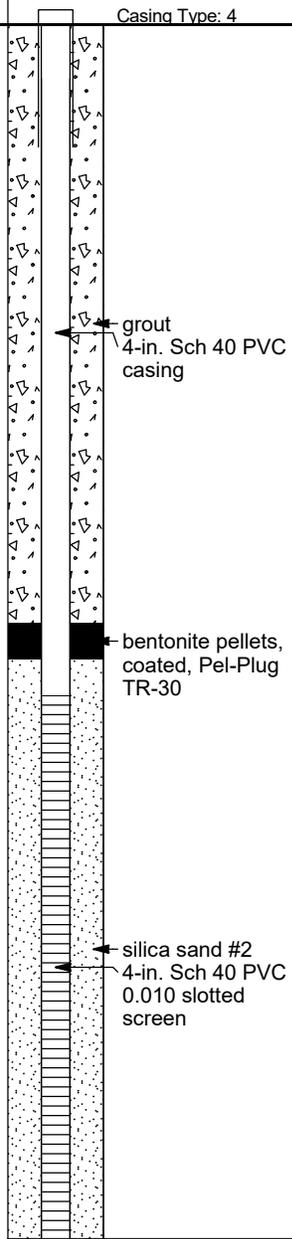
Apex Companies

# BORING NUMBER MW-61

CLIENT Colonial Pipeline PROJECT NAME 2020-L1-SR2448  
 PROJECT NUMBER CPC20126 PROJECT LOCATION Huntersville, NC  
 DATE/TIME STARTED 11/5/2020 COMPLETED 11/5/2020 GROUND ELEVATION \_\_\_\_\_ TOP OF CASING \_\_\_\_\_  
 DRILLING CONTRACTOR HD Drilling EQUIPMENT \_\_\_\_\_  
 DRILLER \_\_\_\_\_ GROUND WATER LEVELS AND TIME:  
 LOGGED BY Kyle Zigler BOREHOLE DIAMETER 8.1 in. DURING DRILLING ---  
 METHOD Sonic AFTER DRILLING 49.13 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						Casing Type: 4
	PID = 24.7 PID = 4.2			LEAN CLAY, SILTY CLAY, (CL) red brown 2.5YR 4/4, moist, low plasticity, saprolite, mica, trace organics		
	PID = 0			SILTY SAND, SILTY SAND, (SM) strong brown 7.5YR 5/8, dry, non plastic, saprolite		
10	PID = 0 PID = 0					
	PID = 5.8			SANDY SILT, SANDY SILT, (ML) pink 2.5YR 8/4, dry, non plastic, saprolite, banding, quartz, mica		
				gravel in borehole		
20	PID = 4.5 PID = 3.5			SANDY SILT, SANDY SILT, (ML) light gray 5Y 7/2, dry, non plastic, saprolite, quartz, mica		
	PID = 3.6					
30	PID = 4.7 PID = 2.5			SANDY SILT, SANDY SILT, (ML) light gray 5Y 7/2, very hard, non plastic, saprolite, banding, quartz, mica		
	PID = 0			SILTY SAND, SILTY SAND, (SM) light gray, very hard, non plastic, saprolite, banding, quartz, mica		
40	PID = 0 PID = 0					
	PID = 1.2 PID = 2.8					
50	PID = 2.6 PID = 3.7					
	PID = 2.6					
	PID = 3.4					
60	PID = 3.6			SILTY SAND, (SM) moist, saprolite		
				DIORITE, highly weathered, [Quartz Diorite]		
				Bottom of borehole at 67.0 feet.		

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# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Well Contractor Name: Francis Xavier Harrington

NC Well Contractor Certification Number: 4389 A

Company Name: Walker Hill Environmental

2. Well Construction Permit #: \_\_\_\_\_  
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

<b>Water Supply Well:</b>	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
<b>Non-Water Supply Well:</b>	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
<b>Injection Well:</b>	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/5/2020 Well ID# MW-61

5a. Well Location:  
Facility/Owner Name: Colonial Pipeline  
Facility ID# (if applicable): \_\_\_\_\_  
Physical Address, City, and Zip: Huntersville-Concord Rd, Huntersville 28078  
County: mecklenburg Parcel Identification No. (PIN): 01940102

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees: (if well field, one lat/long is sufficient)  
610443.187 N 1462311.893 W

6. Is(are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 67 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+"

11. Borehole diameter: 8 (in.)

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

<b>FOR WATER SUPPLY WELLS ONLY:</b>	
13a. Yield (gpm) _____	Method of test: _____
13b. Disinfection type: _____	Amount: _____

For Internal Use Only:

<b>14. WATER ZONES</b>					
FROM	TO	DESCRIPTION			
ft.	ft.				
ft.	ft.				
<b>15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)</b>					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
ft.	ft.	in.			
<b>16. INNER CASING OR TUBING (geothermal closed-loop)</b>					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
<u>+3</u> ft.	<u>37</u> ft.	<u>4</u> in.		<u>Sch 40</u>	<u>PVC</u>
ft.	ft.	in.			
<b>17. SCREEN</b>					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
<u>37</u> ft.	<u>67</u> ft.	<u>4</u> in.	<u>.010</u>	<u>Sch 40</u>	<u>PVC</u>
ft.	ft.	in.			
<b>18. GROUT</b>					
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT		
<u>33</u> ft.	<u>35</u> ft.	<u>Pellets</u>	<u>Poured / 1-Bucket</u>		
<u>0</u> ft.	<u>33</u> ft.	<u>Cement</u>	<u>Trimmie / 7-Bags</u>		
ft.	ft.				
<b>19. SAND/GRAVEL PACK (if applicable)</b>					
FROM	TO	MATERIAL	EMPLACEMENT METHOD		
<u>35</u> ft.	<u>67</u> ft.	<u>#2 Sand</u>	<u>Poured/Vibrate</u>		
ft.	ft.				
<b>20. DRILLING LOG (attach additional sheets if necessary)</b>					
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)			
<u>0</u> ft.	<u>7.5</u> ft.	<u>Red Brown Silty Clay</u>			
<u>7.5</u> ft.	<u>12.5</u> ft.	<u>Brown Silty Sand</u>			
<u>12.5</u> ft.	<u>20</u> ft.	<u>Pink Sandy Silt</u>			
<u>20</u> ft.	<u>35</u> ft.	<u>light Gray Sandy Silt</u>			
<u>35</u> ft.	<u>57</u> ft.	<u>light Gray Silty Sand</u>			
<u>57</u> ft.	<u>67</u> ft.	<u>highly weathered Diorite</u>			
ft.	ft.				
<b>21. REMARKS</b>					

22. Certification:  
Signature of Certified Well Contractor: Francis Xavier Harrington  
Date: 12/7/2020

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.



Apex Companies

# BORING NUMBER MW-61D

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 11/4/2020 **COMPLETED** 11/14/2020 **GROUND ELEVATION** 742.39 ft **TOP OF CASING** 745.40 ft  
**DRILLING CONTRACTOR** HD Drilling/ Parrot & Wolf **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:** \_\_\_\_\_  
**LOGGED BY** Kyle Zigler / Andrew Strickland **BOREHOLE DIAMETER** 8.1 / 4 in. **DURING DRILLING** ---  
**METHOD** Sonic / Air Rotary 3-7/8 **AFTER DRILLING** 50.30 ft / Elev 692.09 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						Casing Type: 4
0 - 7.5	SC 1	PID = 24.7 PID = 4.2 PID = 0	[Hatched pattern]	LEAN CLAY, SILTY CLAY, (CL) red brown 2.5YR 4/4, moist, low plasticity, saprolite, mica, trace organics	initially identified as PDW-10	734.9
7.5 - 12.5		PID = 0	[Dotted pattern]			729.9
12.5 - 17.5	SC 2	PID = 0 PID = 5.8	[Vertical lines]	SILTY SAND, SILTY SAND, (SM) strong brown 7.5YR 5/8, dry, non plastic, saprolite		724.9
17.5 - 20.0			[Horizontal lines]			722.4
20.0 - 27.5	SC 3	PID = 4.5 PID = 3.5 PID = 3.6	[Vertical lines]	SANDY SILT, SANDY SILT, (ML) pink 2.5YR 8/4, dry, non plastic, saprolite, banding, quartz, mica		714.9
27.5 - 35.0		PID = 4.7	[Horizontal lines]	gravel in borehole		
35.0 - 40.0	SC 4	PID = 2.5 PID = 0 PID = 0	[Vertical lines]	SANDY SILT, SANDY SILT, (ML) light gray 5Y 7/2, dry, non plastic, saprolite, quartz, mica		707.4
40.0 - 57.0	SC 5	PID = 0 PID = 1.2 PID = 2.8 PID = 2.6 PID = 3.7	[Vertical lines]	SANDY SILT, SANDY SILT, (ML) light gray 5Y 7/2, very hard, non plastic, saprolite, banding, quartz, mica		
57.0 - 60.0	SC 6	PID = 2.6 PID = 3.4 PID = 3.6	[Vertical lines]	SILTY SAND, SILTY SAND, (SM) light gray, very hard, non plastic, saprolite, banding, quartz, mica		685.4
60.0 - 67.0			[Dotted pattern]	SILTY SAND, (SM) moist, saprolite		682.4
67.0 - 67.5			[Hatched pattern]	DIORITE, highly weathered, [Quartz Diorite]	drilling resistance indicates bedrock at 67 feet bgs	675.4
67.5 - 86.0			[Hatched pattern]	DIORITE, unweathered, [Quartz Diorite]		
86.0 - 87.5			[Hatched pattern]	soft zone		
87.5 - 89.0			[Hatched pattern]	soft zone		
89.0 - 93.0			[Hatched pattern]	soft zone		
93.0 - 95.0			[Hatched pattern]	soft zone		
95.0 - 96.0			[Hatched pattern]	soft zone		
96.0 - 98.0			[Hatched pattern]	water-bearing zone		
98.0 - 103.0			[Hatched pattern]	water-bearing zone		
103.0 - 101.0			[Hatched pattern]	soft zone		
101.0 - 102.0			[Hatched pattern]	soft zone		
102.0 - 111.0			[Hatched pattern]	soft zone	air-lift yield 3 gpm	
111.0 - 112.0			[Hatched pattern]	soft zone	air-lift yield 15 gpm	
112.0 - 123.0			[Hatched pattern]	soft zone		
123.0				Bottom of borehole at 123.0 feet.		619.4

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# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Francis Xavier Harrington  
Well Contractor Name  
4389A  
NC Well Contractor Certification Number

Walker Hill Environmental  
Company Name

2. Well Construction Permit #: \_\_\_\_\_  
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

## 3. Well Use (check well use):

**Water Supply Well:**

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

**Non-Water Supply Well:**

Monitoring  Recovery

**Injection Well:**

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

4. Date Well(s) Completed: 11/5/2020 Well ID# MW-610

5a. Well Location:  
Colonial Pipeline  
Facility/Owner Name  
Huntersville - Concord Rd, Huntersville  
Physical Address, City, and Zip 28098  
Mecklenburg  
County 01940102  
Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)  
610443.187 N 1462311.893 W

6. Is(are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 77 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+."

11. Borehole diameter: 8 (in.)

12. Well construction method: Sonic  
(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		
FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
<u>+3</u> ft.	<u>77</u> ft.	<u>4</u> in.	<u>Sch 40</u>	<u>PVC</u>

16. INNER CASING OR TUBING (geothermal closed-loop)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
ft.	ft.	in.			
ft.	ft.	in.			

18. GROUT			
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
<u>0</u> ft.	<u>77</u> ft.	<u>Cement</u>	<u>Trimmic / 21-Bags</u>
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)			
FROM	TO	MATERIAL	EMPLACEMENT METHOD
ft.	ft.		
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)		
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
<u>0</u> ft.	<u>7.5</u> ft.	<u>Red Brown Silty Clay</u>
<u>7.5</u> ft.	<u>12.5</u> ft.	<u>Brown Silty Sand</u>
<u>12.5</u> ft.	<u>20</u> ft.	<u>Pink Sandy Silt</u>
<u>20</u> ft.	<u>35</u> ft.	<u>light Gray Sandy Silt</u>
<u>35</u> ft.	<u>57</u> ft.	<u>light Gray Silty Sand</u>
<u>57</u> ft.	<u>67</u> ft.	<u>highly weathered Diorite</u>
<u>67</u> ft.	<u>77</u> ft.	<u>Diorite</u>

21. REMARKS:  
Surface Casing

22. Certification:  
Francis Xavier Harrington 12/7/2020  
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.



Apex Companies

# BORING NUMBER MW-62

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 11/15/2020 **COMPLETED** 11/15/2020 **GROUND ELEVATION** 726.64 ft **TOP OF CASING** 691.14 ft  
**DRILLING CONTRACTOR** HD Drilling **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Tommy Fisher **BOREHOLE DIAMETER** 8.1 in. **DURING DRILLING** ---  
**METHOD** Sonic **AFTER DRILLING** 33.95 ft / Elev 692.69 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0				no stratigraphic logging		Casing Type: 4
5						
10						
15						
20						
25						4-in. Sch 40 PVC casing grout
30						bentonite 1/4-in. pellets, coated, Pel-Plug TR-30
35						silica sand #2 4-in. Sch 40 PVC 0.010 slotted screen
				35.5	drilling resistance indicated bedrock at 35.5 feet bgs	691.1
				Bottom of borehole at 35.5 feet.		

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# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Francis Xavier Harrington  
Well Contractor Name

4389A  
NC Well Contractor Certification Number

Walker Hill Environmental  
Company Name

2. Well Construction Permit #: \_\_\_\_\_  
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/15/2020 Well ID# MW-62

5a. Well Location:  
Colonial Pipeline  
Facility/Owner Name

13926 Huntersville-Concord Rd, Huntersville, NC 28078  
Physical Address, City, and Zip

Mecklenburg 01921212  
County Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)  
\_\_\_\_\_ N \_\_\_\_\_ W

6. Is(are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 35.5 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+"

11. Borehole diameter: 8 (in.)

12. Well construction method: Sonic  
(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		
FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
+3 ft.	25.5 ft.	4 in.	Sch 40	PVC
ft.	ft.	in.		

17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
25.5 ft.	35.5 ft.	4 in.	0010	Sch 40	PVC
ft.	ft.	in.			

18. GROUT			
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
21.5 ft.	23.5 ft.	Pellets	Poured / 1-Bucket
0 ft.	21.5 ft.	Cement	Trimmie / 7-Bags
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)			
FROM	TO	MATERIAL	EMPLACEMENT METHOD
23.5 ft.	35.5 ft.	#2 Sand	Poured / Vibrate
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)		
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	35.5 ft.	No Stratigraphic Logging
ft.	ft.	

21. REMARKS

22. Certification:  
Francis Xavier Harrington 12/7/2020  
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.



Apex Companies

# BORING NUMBER MW-62D

CLIENT Colonial Pipeline  
 PROJECT NUMBER CPC20126  
 DATE/TIME STARTED 11/15/2020 COMPLETED \_\_\_\_\_  
 DRILLING CONTRACTOR HD Drilling  
 DRILLER \_\_\_\_\_  
 LOGGED BY Gordon O'Toole BOREHOLE DIAMETER 8.1 in.  
 METHOD Sonic

PROJECT NAME 2020-L1-SR2448  
 PROJECT LOCATION Huntersville, NC  
 GROUND ELEVATION 726.74 ft TOP OF CASING 729.92 ft  
 EQUIPMENT \_\_\_\_\_  
 GROUND WATER LEVELS AND TIME:  
 DURING DRILLING ---  
 AFTER DRILLING 51.99 ft / Elev 674.75 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
10						
20						
30						<p>4-in. Sch. 40 PVC surface isolation casing</p> <p>Portland type I/II grout with 3% bentonite</p>
40						
50					drilling resistance indicates bedrock at 58.5 feet bgs	

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# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Francis Xavier Harrington  
Well Contractor Name  
4389 A  
NC Well Contractor Certification Number  
Walker Hill Environmental  
Company Name

2. Well Construction Permit #: \_\_\_\_\_  
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

## 3. Well Use (check well use):

**Water Supply Well:**

Agricultural  Municipal/Public

Geothermal (Heating/Cooling Supply)  Residential Water Supply (single)

Industrial/Commercial  Residential Water Supply (shared)

Irrigation

**Non-Water Supply Well:**

Monitoring  Recovery

**Injection Well:**

Aquifer Recharge  Groundwater Remediation

Aquifer Storage and Recovery  Salinity Barrier

Aquifer Test  Stormwater Drainage

Experimental Technology  Subsidence Control

Geothermal (Closed Loop)  Tracer

Geothermal (Heating/Cooling Return)  Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/15/2020 Well ID# MW-62 D

## 5a. Well Location:

Colonial Pipeline  
Facility/Owner Name  
13926 Huntersville-Concord Rd, Huntersville  
Physical Address, City, and Zip 28078  
Mecklenburg  
County 01921212  
Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)

809743.041 N 1461850.176 W

6. Is (are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 58 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+"

11. Borehole diameter: 8 (in.)

12. Well construction method: Sonic  
(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		
FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
<u>73</u> ft.	<u>58</u> ft.	<u>4</u> in.	<u>Sch 40</u>	<u>PVC</u>

16. INNER CASING OR TUBING (geothermal closed-loop)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
ft.	ft.	in.			
ft.	ft.	in.			

18. GROUT			
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
<u>0</u> ft.	<u>58</u> ft.	<u>Cement</u>	<u>Trimmie / 20-Bags</u>
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)			
FROM	TO	MATERIAL	EMPLACEMENT METHOD
ft.	ft.		
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)		
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
<u>0</u> ft.	<u>48</u> ft.	<u>No Stratigraphic Logging</u>
<u>48</u> ft.	<u>58</u> ft.	<u>Diorite</u>
ft.	ft.	

21. REMARKS  
Surface Casing

## 22. Certification:

Francis Xavier Harrington 12/7/2020  
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.



Apex Companies

# BORING NUMBER MW-72

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 1/7/2021 **COMPLETED** 1/9/2021 **GROUND ELEVATION** 743.39 ft **TOP OF CASING** 746.97 ft  
**DRILLING CONTRACTOR** Parratt-Wolff **EQUIPMENT**  
**DRILLER** Malcom Philips **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Prock **BOREHOLE DIAMETER** 6 in. **▽ DURING DRILLING** 44.00 ft / Elev 699.39 ft  
**METHOD** Hollow Stem Auger 4.25" **▽ AFTER DRILLING** 45.43 ft / Elev 697.96 ft

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DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
2.0	SS 1	PID = 0.9		GRAVELLY LEAN CLAY, (CL) red 10R 4/8		741.4 grout
7.0	SS 2	PID = 0.2		SILTY SAND, (SM) red 10R 4/8		736.4 Sch 40 PVC casing
12.0	SS 3	PID = 1.1		SILTY SAND, (SM) yellow red 2.5YR 5/8		731.4
17.0	SS 4	PID = 0.1		SILTY SAND, (SM) yellow red 5YR 5/8		726.4
22.0	SS 5	PID = 0.4		SILTY SAND, (SM) yellow red 7.5YR 4/4		721.4 bentonite
27.0	SS 6	PID = 0.1		SILTY SAND, (SM) yellow red 7.5YR 5/6		716.4
32.0	SS 7	PID = 0.3		POORLY GRADED SAND WITH SILT, (SP-SM) yellow red 10YR 5/4		711.4
37.0	SS 8	PID = 0.2		POORLY GRADED SAND WITH SILT, (SP-SM) yellow red 10YR 3/2		706.4
42.0	SS 9	PID = 5.1		POORLY GRADED SAND WITH SILT, (SP-SM) yellow red 10YR 3/2		701.4
47.0	SS 10	PID = 0.9		POORLY GRADED SAND WITH SILT, (SP-SM) yellow red 10YR 3/1		696.4 silica sand #2
52.0	SS 11	PID = 0.2				691.4 Sch 40 PVC 0.010 slotted screen
				Bottom of borehole at 54.0 feet.		

# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, 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: 1/9/21 Well ID# MW-72

## 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

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

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

35.414969 N -80.804731 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 54 (ft.)

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

10. Static water level below top of casing: 51 (ft.)

If water level is above casing, use "-"

11. Borehole diameter: 2 (in.)

12. Well construction method: 8 1/4 HSA & 2" split spoons

(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

FROM	TO	DESCRIPTION
52 ft.	54 ft.	wet
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	40 ft.	2 in.	sch40	pvc
ft.	ft.	in.		

## 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
39 ft.	54 ft.	2 in.	.010	sch40	pvc
ft.	ft.	in.			

## 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	32 ft.	Portland Cem	Tremie
32 ft.	34 ft.	Bentonite Chi	Tremie
ft.	ft.		

## 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
36 ft.	54 ft.	#1 Sand	Tremie
ft.	ft.		

## 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

## 21. REMARKS

## 22. Certification:

Kevin E. Wolff 2-1-21  
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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:

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.



Apex Companies

# BORING NUMBER RW-46

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 11/19/2020 **COMPLETED** 11/19/2020 **GROUND ELEVATION** 716.03 ft **TOP OF CASING** 716.92 ft  
**DRILLING CONTRACTOR** Walker-Hill Environmental **EQUIPMENT**  
**DRILLER**  
**LOGGED BY** Kyle Zigler **BOREHOLE DIAMETER** 8.1 in. **GROUND WATER LEVELS AND TIME:**  
**METHOD** Sonic **DURING DRILLING** ---  
**AFTER DRILLING** --- no water

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0				no stratigraphic logging		
5					initially identified as PRW-9B offset from PRW-9 and -9A locations due to shallow bedrock	
10					elevated benzene measured in open borehole	Type S Cement
15						Bentonite
20						
25						
30						GP #2 sand
35						4 in. Sch 40 PVC 0.010 slotted screen
40						4 in. Sch 40 PVC casing
44.0				Bottom of borehole at 44.0 feet.	drilling resistance indicate bedrock at 44 feet bgs	
672.0						

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Apex Companies

# BORING NUMBER RW-46

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448

**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
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# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Francis Xavier Harrington  
Well Contractor Name

4389 A  
NC Well Contractor Certification Number

Walker Hill Environmental  
Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

<b>Water Supply Well:</b>	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
<b>Non-Water Supply Well:</b>	
<input type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Recovery
<b>Injection Well:</b>	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under #21 Remarks)

4. Date Well(s) Completed: 11/19/2020 Well ID# RW-46

## 5a. Well Location:

Colonial Pipeline  
Facility/Owner Name

Facility ID# (if applicable)

Huntersville - Concord Rd, Huntersville  
Physical Address, City, and Zip 28078

Mecklenburg  
County

01940102  
Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)

35.414905 N 80.805972 W

6. Is(are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 43 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+"

11. Borehole diameter: 8 (in.)

12. Well construction method: Sonic  
(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					
FROM	TO	DESCRIPTION			
ft.	ft.				
ft.	ft.				
15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
ft.	ft.	in.			
16. INNER CASING OR TUBING (geothermal closed-loop)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
<u>3</u> ft.	<u>13</u> ft.	<u>4</u> in.	<u>Sch 40</u>	<u>PVC</u>	
ft.	ft.	in.			
17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
<u>13</u> ft.	<u>43</u> ft.	<u>4</u> in.	<u>.010</u>	<u>Sch 40</u>	<u>PVC</u>
ft.	ft.	in.			
18. GROUT					
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT		
<u>2</u> ft.	<u>9</u> ft.	<u>Cement</u>	<u>Trimmie / 2-Bags</u>		
<u>9</u> ft.	<u>11</u> ft.	<u>Pellets</u>	<u>Poured / 1-Bucket</u>		
ft.	ft.				
19. SAND/GRAVEL PACK (if applicable)					
FROM	TO	MATERIAL	EMPLACEMENT METHOD		
<u>11</u> ft.	<u>43</u> ft.	<u>#2 Sand</u>	<u>Poured/Vibrate</u>		
ft.	ft.				
20. DRILLING LOG (attach additional sheets if necessary)					
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)			
<u>0</u> ft.	<u>43</u> ft.	<u>No Stratigraphic Logging</u>			
ft.	ft.				
ft.	ft.				
ft.	ft.				
ft.	ft.				
ft.	ft.				
21. REMARKS					

## 22. Certification:

Francis Xavier Harrington  
Signature of Certified Well Contractor

12/7/2020  
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.



Apex Companies

# BORING NUMBER RW-47

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 11/19/2020 **COMPLETED** 11/20/2020 **GROUND ELEVATION** 724.6 ft **TOP OF CASING** 725.40 ft  
**DRILLING CONTRACTOR** HD Drilling **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Zigler **BOREHOLE DIAMETER** 8.1 in. **DURING DRILLING** ---  
**METHOD** Sonic **AFTER DRILLING** 38.80 ft / Elev 685.80 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0				no stratigraphic logging	initially identified as PRW-11	<p>Casing Type: 4            grout            4-in. Sch 40 PVC casing            bentonite            silica sand #2            4-in. Sch 40 PVC 0.010 slotted screen</p>
5						
10						
15						
20						
25						
30						
35						
40						
41.0				41.0	drilling resistance indicate bedrock at 41 feet bgs	683.6
				Bottom of borehole at 41.0 feet.		

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# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Francis Xavier Harrington  
Well Contractor Name

4389 A  
NC Well Contractor Certification Number

Walker Hill Environmental  
Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

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

4. Date Well(s) Completed: 11/20/2020 Well ID# RW-47

### 5a. Well Location:

Colonial Pipeline  
Facility/Owner Name

Huntersville - Concord Rd, Huntersville  
Physical Address, City, and Zip 28078

Mecklenburg 01940102  
County Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)

35.414213 N 80.806473 W

6. Is(are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 41 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+"

11. Borehole diameter: 8 (in.)

12. Well construction method: Sonic  
(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

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
+3 ft.	11 ft.	4 in.	Sch 40	PVC
ft.	ft.	in.		

### 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
11 ft.	41 ft.	4 in.	.010	Sch 40	PVC
ft.	ft.	in.			

### 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
2 ft.	7 ft.	Cement	Trimmie / 2-Bags
7 ft.	9 ft.	Pellets	Poured / 1-Bucket
ft.	ft.		

### 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9 ft.	41 ft.	#2 Sand	Poured/Vibrate
ft.	ft.		

### 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	41 ft.	No Stratigraphic Logging
ft.	ft.	

### 21. REMARKS:

## 22. Certification:

Francis Xavier Harrington 12/7/2020  
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

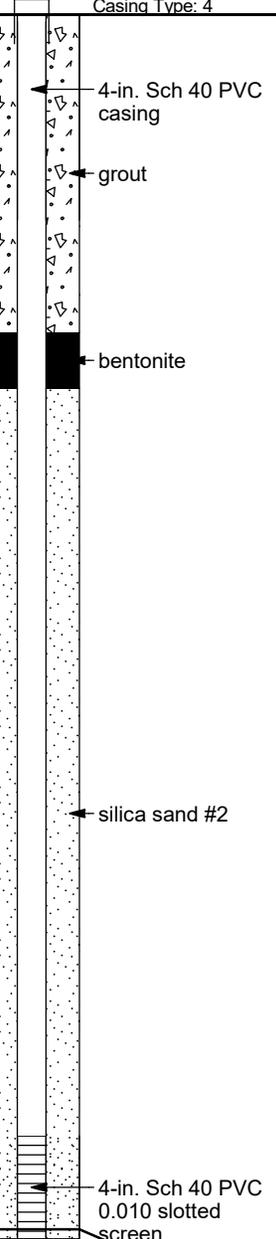
24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.



Apex Companies

# BORING NUMBER RW-48

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 11/21/2020 **COMPLETED** 11/21/2020 **GROUND ELEVATION** 720.72 ft **TOP OF CASING** 723.57 ft  
**DRILLING CONTRACTOR** \_\_\_\_\_ **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Bill J. / Tommy F. **BOREHOLE DIAMETER** 6.5/8 in. **DURING DRILLING** ---  
**METHOD** Sonic **AFTER DRILLING** 33.84 ft / Elev 686.88 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0 10 20 30 40 50 60					initially identified as PDW-11	 <p>Casing Type: 4</p> <p>4-in. Sch 40 PVC casing</p> <p>grout</p> <p>bentonite</p> <p>silica sand #2</p> <p>4-in. Sch 40 PVC 0.010 slotted screen</p>

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# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

- Monitoring  Recovery

### Injection Well:

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

4. Date Well(s) Completed: 12-2-20 Well ID# RW-48

## 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

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

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

35.413678 N -80.804922 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 65 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 48 (ft.)  
If water level is above casing, use "--"

11. Borehole diameter: 8 (in.)

12. Well construction method: 6 5/8 HSA + 2" spoons  
(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

FROM	TO	DESCRIPTION
48 ft.	65 ft.	wet
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	25 ft.	4 in.	sch40	pvc
ft.	ft.	in.		

## 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
25 ft.	65 ft.	4 in.	.010	sch40	pvc
ft.	ft.	in.			

## 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	17 ft.	Portland Cem	Tremie
17 ft.	20 ft.	Bentonite Chi	Tremie
ft.	ft.		

## 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
20 ft.	40 ft.	#1 Sand	Tremie
ft.	ft.		

## 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

## 21. REMARKS

No cover

## 22. Certification:

Signature of Certified Well Contractor Kevin E. Parratt Date 1.6.21

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 ONLY: In addition to sending the form to the address in 24a above, also submit a 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:

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.



Apex Companies

# BORING NUMBER RW-49

**CLIENT** Colonial Pipeline                      **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126                      **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 1/12/2021      **COMPLETED** 1/13/2021      **GROUND ELEVATION** \_\_\_\_\_ **TOP OF CASING** \_\_\_\_\_  
**DRILLING CONTRACTOR** Parratt-Wolff                      **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_                      **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Zigler/Kyle Prock      **BOREHOLE DIAMETER** 8.1/4 in.      **DURING DRILLING** ---  
**METHOD** \_\_\_\_\_                      **AFTER DRILLING** ---

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DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						<p>           Casing Type: 4            grout            4-in. Sch 40 PVC casing            bentonite            GP #1 sand            4-in. Sch 40 PVC 0.010 slotted screen         </p>
10						
20						
30						
40						
50						

**WELL CONSTRUCTION RECORD**

This form can be used for single or multiple wells

**1. Well Contractor Information:**

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

**2. Well Construction Permit #:**

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

**3. Well Use (check well use):**

**Water Supply Well:**

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

**Non-Water Supply Well:**

- Monitoring  Recovery

**Injection Well:**

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

**4. Date Well(s) Completed:** 1-13-21 **Well ID#** RW-49

**5a. Well Location:**

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

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

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

35.413080 N -80.805753 W

**6. Is (are) the well(s):**  Permanent or  Temporary

**7. Is this a repair to an existing well:**  Yes or  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. Number of wells constructed:** 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

**9. Total well depth below land surface:** 50 (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 (in.)

**12. Well construction method:** 6 5/8 with 2" split spoons

(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**

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	30 ft.	4 in.	sch40	pvc
ft.	ft.	in.		

**17. SCREEN**

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
30 ft.	50 ft.	4 in.	.010	sch40	pvc
ft.	ft.	in.			

**18. GROUT**

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	25 ft.	Portland Cem	Tremie
25 ft.	27.5 ft.	Bentonite Chi	Tremie
ft.	ft.		

**19. SAND/GRAVEL PACK (if applicable)**

FROM	TO	MATERIAL	EMPLACEMENT METHOD
27.5 ft.	50 ft.	#1 Sand	Tremie
ft.	ft.		

**20. DRILLING LOG (attach additional sheets if necessary)**

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

**21. REMARKS**

No cover

**22. Certification:**

Kevin S. White 2-1-21  
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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:**

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.



Apex Companies

# BORING NUMBER RW-50

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 1/13/2021 **COMPLETED** 1/13/2021 **GROUND ELEVATION** \_\_\_\_\_ **TOP OF CASING** \_\_\_\_\_  
**DRILLING CONTRACTOR** Parratt-Wolff **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Zigler/Kyle Prock **BOREHOLE DIAMETER** 8.1/4 in. **DURING DRILLING** ---  
**METHOD** \_\_\_\_\_ **AFTER DRILLING** ---

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DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						Casing Type: 4
10						<p>grout 4-in. Sch 40 PVC casing</p> <p>bentonite</p> <p>silica sand #2 4-in. Sch 40 PVC 0.010 slotted screen</p>
20						
30						
40						
50						
60						

# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

- Monitoring  Recovery

### Injection Well:

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

4. Date Well(s) Completed: 1-19-21 Well ID# RW-50

## 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

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

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

35.413296 N -80.805476 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 61.5 (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 (in.)

12. Well construction method: 6 5/8 HSA with 2" split spoons  
(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

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	31 ft.	4 in.	sch40	pvc
ft.	ft.	in.		

## 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
31 ft.	61 ft.	4 in.	.010	sch40	pvc
ft.	ft.	in.			

## 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	26 ft.	Portland Cem	Tremie
26 ft.	28 ft.	Bentonite Chi	Tremie
ft.	ft.		

## 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
28 ft.	61.5 ft.	#1 Sand	Tremie
ft.	ft.		

## 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

## 21. REMARKS

## 22. Certification:

Kevin E. Wolff 2-1-21  
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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:

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.



Apex Companies

# BORING NUMBER RW-53

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 1/19/2021 **COMPLETED** 1/19/2021 **GROUND ELEVATION** \_\_\_\_\_ **TOP OF CASING** \_\_\_\_\_  
**DRILLING CONTRACTOR** Parratt-Wolff **EQUIPMENT** \_\_\_\_\_  
**DRILLER** Kevin White **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Prock **BOREHOLE DIAMETER** 8 in. **▽ DURING DRILLING** 25.00 ft  
**METHOD** Hollow Stem Auger 8.25" **▼ AFTER DRILLING** 30.00 ft Depth to product: 27.42'

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
5	AU 1			LEAN CLAY, (CL) 10R 4/4		<p>grout Sch 40 PVC casing</p> <p>bentonite</p> <p>silica sand #2 Sch 40 PVC 0.010 slotted screen</p>
10	AU 2			LEAN CLAY, (CL) 5YR 5/4		
15	AU 3			SILTY SAND, (SM) 7.5YR 6/3		
20	AU 4			SILTY SAND, (SM) 7.5YR 6/3		
25	AU 5				▽	
30					▼	
				Refusal at 33.0 feet. Bottom of borehole at 33.0 feet.		

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**WELL CONSTRUCTION RECORD**

This form can be used for single or multiple wells

**1. Well Contractor Information:**

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

**2. Well Construction Permit #:**

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

**3. Well Use (check well use):**

**Water Supply Well:**

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

**Non-Water Supply Well:**

- Monitoring  Recovery

**Injection Well:**

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

**4. Date Well(s) Completed:** 1-19-21 **Well ID#** RW-53

**5a. Well Location:**

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

**5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:**  
(if well field, one lat/long is sufficient)

35.413240 N -80.806108 W

**6. Is (are) the well(s):**  Permanent or  Temporary

**7. Is this a repair to an existing well:**  Yes or  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. Number of wells constructed:** 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

**9. Total well depth below land surface:** 33 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

**10. Static water level below top of casing:** 30 (ft.)  
If water level is above casing, use " "

**11. Borehole diameter:** 8 (in.)

**12. Well construction method:** 6 5/8 HSA  
(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		
FROM	TO	DESCRIPTION
30 ft.	33 ft.	wet
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	13 ft.	4 in.	sch40	pvc
ft.	ft.	in.		

17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
13 ft.	33 ft.	4 in.	.010	sch40	pvc
ft.	ft.	in.			

18. GROUT			
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	9 ft.	Portland Cem	Tremie
9 ft.	11 ft.	Bentonite Chi	Tremie
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)			
FROM	TO	MATERIAL	EMPLACEMENT METHOD
11 ft.	33 ft.	#1 Sand	Tremie
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)		
FROM	TO	DESCRIPTION (color, hardness, soil/rack type, grain size, etc.)
ft.	ft.	

**21. REMARKS**

**22. Certification:**  
  
 Signature of Certified Well Contractor Date 2.1.21

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 INSTUCTIONS**

**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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:**  
 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.



Apex Companies

# BORING NUMBER RW-54

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 1/20/2021 **COMPLETED** 1/20/2021 **GROUND ELEVATION** \_\_\_\_\_ **TOP OF CASING** \_\_\_\_\_  
**DRILLING CONTRACTOR** Parratt-Wolff **EQUIPMENT** \_\_\_\_\_  
**DRILLER** Kevin White **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Prock **BOREHOLE DIAMETER** 8 in. **▽ DURING DRILLING** 34.00 ft  
**METHOD** Hollow Stem Auger 4.25" **▼ AFTER DRILLING** 43.34 ft Depth to product: 29.96'

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
0 - 5	AU 1			LEAN CLAY, (CL) 2.5YR 4/6		<p>grout Sch 40 PVC casing</p> <p>bentonite</p> <p>silica sand #2 Sch 40 PVC 0.010 slotted screen</p>
5 - 10	AU 2			LEAN CLAY WITH SAND, (CL) 7.5YR 4/6		
10 - 15	AU 3			SILT WITH SAND, (ML) 10YR 4/6		
15 - 20	AU 4			SILT WITH SAND, (ML) 10YR 5/6		
20 - 25	AU 5			SILT WITH SAND, (ML) 10YR 5/6		
25 - 30				SILT WITH SAND, (ML) 10YR 5/6		
30 - 35				SILT WITH SAND, (ML) 10YR 4/4		
35 - 40				▽		
40 - 45				▽		
45 - 47.0				Refusal at 47.0 feet. Bottom of borehole at 47.0 feet.		

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# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

- Monitoring  Recovery

### Injection Well:

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

4. Date Well(s) Completed: 1-20-21 Well ID# RW-54

## 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

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

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

35.413228 N -80.806007 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 47 (ft.)

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

10. Static water level below top of casing: 43 (ft.)

If water level is above casing, use "-"

11. Borehole diameter: 8 (in.)

12. Well construction method: 6 5/8 HSA

(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

FROM	TO	DESCRIPTION
43 ft.	47 ft.	wet
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	17 ft.	4 in.	sch40	pvc
ft.	ft.	in.		

## 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
17 ft.	47 ft.	4 in.	.010	sch40	pvc
ft.	ft.	in.			

## 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	13 ft.	Portland Cem	Tremie
13 ft.	15 ft.	Bentonite Chi	Tremie
ft.	ft.		

## 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
15 ft.	47 ft.	#1 Sand	Tremie
ft.	ft.		

## 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

## 21. REMARKS


## 22. Certification:

Kevin E. White 2.1.21  
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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:

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.



Apex Companies

# BORING NUMBER RW-56

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 1/22/2021 **COMPLETED** 1/22/2021 **GROUND ELEVATION** \_\_\_\_\_ **TOP OF CASING** \_\_\_\_\_  
**DRILLING CONTRACTOR** Parratt-Wolff **EQUIPMENT** \_\_\_\_\_  
**DRILLER** Kevin White **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Prock **BOREHOLE DIAMETER** 8 in. **▽ DURING DRILLING** 36.00 ft  
**METHOD** Hollow Stem Auger 8.25" **▽ AFTER DRILLING** 31.21 ft Depth to product: 31.76'

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
	AU 1			LEAN CLAY, (CL) 10R 3/6		<p>Sch 40 PVC casing</p> <p>grout</p> <p>bentonite</p> <p>silica sand #2</p> <p>Sch 40 PVC 0.010 slotted screen</p>
	AU 2			LEAN CLAY, (CL) 5YR 4/4		
10	AU 3			LEAN CLAY, (CL) 5YR 4/4		
	AU 4			LEAN CLAY, (CL) 5YR 4/4		
	AU 5			LEAN CLAY, (CL) 5YR 4/4		
20				LEAN CLAY, (CL) 7.5YR 5/3		
30				▽ LEAN CLAY WITH SAND, (CL) 10YR 4/3 ▽ LEAN CLAY WITH SAND, (CL) 10YR 4/2		
40						
				Refusal at 46.0 feet. Bottom of borehole at 46.0 feet.		

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**WELL CONSTRUCTION RECORD**

This form can be used for single or multiple wells

**1. Well Contractor Information:**

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

**2. Well Construction Permit #:**

List all applicable well permits (i.e. County, State, Variance, Injection, 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:** 1-22-21 **Well ID#** RW-56

**5a. Well Location:**

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

**5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:**  
(if well field, one lat/long is sufficient)

35.412752 N -80.805979 W

**6. Is (are) the well(s):**  Permanent or  Temporary

**7. Is this a repair to an existing well:**  Yes or  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. Number of wells constructed:** 1  
For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

**9. Total well depth below land surface:** 46 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

**10. Static water level below top of casing:** 35 (ft.)  
If water level is above casing, use "-"

**11. Borehole diameter:** 8 (in.)

**12. Well construction method:** 6 5/8 HSA  
(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		
FROM	TO	DESCRIPTION
35 ft.	46 ft.	wet

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	21 ft.	4 in.	sch40	pvc
ft.	ft.	in.		

17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
21 ft.	46 ft.	4 in.	.010	sch40	pvc
ft.	ft.	in.			

18. GROUT			
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	16 ft.	Portland Cem	Tremie
16 ft.	18 ft.	Bentonite Chi	Tremie
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)			
FROM	TO	MATERIAL	EMPLACEMENT METHOD
18 ft.	46 ft.	#1 Sand	Tremie
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)		
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

**21. REMARKS**  
No cover

**22. Certification:**

Signature of Certified Well Contractor: Kevin E. White Date: 2.1.21

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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:**

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.



Apex Companies

# BORING NUMBER NHCW-10

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 2/7/2021 **COMPLETED** 2/7/2021 **GROUND ELEVATION** \_\_\_\_\_ **TOP OF CASING** \_\_\_\_\_  
**DRILLING CONTRACTOR** Walker-Hill Environmental **EQUIPMENT** \_\_\_\_\_  
**DRILLER** Mark Michaad **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Chris Trelles **BOREHOLE DIAMETER** 10 in. **DURING DRILLING** ---  
**METHOD** Sonic **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						<p>Casing Type: 4</p> <p>4-in. Sch 40 PVC casing grout</p> <p>1/4-in. bentonite pellets, Pel-Plug</p> <p>silica sand 8-30, Southern Products</p> <p>4-in. Sch 40 PVC 0.010 slotted screen</p>
5						
10						
15						
20						
25						
30						
35						
40						

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# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Francis Xavier Harrington  
Well Contractor Name

4389 A  
NC Well Contractor Certification Number

Walker Hill Environmental  
Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

- Monitoring  Recovery

### Injection Well:

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

4. Date Well(s) Completed: 2/8/2021 Well ID# NHLW-10

## 5a. Well Location:

Colonial Pipeline  
Facility/Owner Name

Facility ID# (if applicable)

Huntersville - Concord Rd, Huntersville  
Physical Address, City, and Zip 28098

mecklenburg  
County

01940102  
Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)

35.415251 N 80.806576 W

6. Is(are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 41 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+" sign.

11. Borehole diameter: \_\_\_\_\_ (in.)

12. Well construction method: Sonic  
(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

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
<u>1</u> ft.	<u>16</u> ft.	<u>4</u> in.	<u>Sch 40</u>	<u>PVC</u>
ft.	ft.	in.		

### 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
<u>16</u> ft.	<u>41</u> ft.	<u>4</u> in.	<u>.010</u>	<u>Sch 40</u>	<u>PVC</u>
ft.	ft.	in.			

### 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
<u>10</u> ft.	<u>12</u> ft.	<u>Pellets</u>	<u>Poured 12-Buckets</u>
<u>2</u> ft.	<u>10</u> ft.	<u>Cement</u>	<u>Trimmed 13-Bags</u>
ft.	ft.		

### 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
<u>12</u> ft.	<u>41</u> ft.	<u>#2 Sand</u>	<u>Poured/Vibrate</u>
ft.	ft.		

### 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	<u>No Soil Log</u>
ft.	ft.	<u>Straight Drilled</u>
ft.	ft.	
ft.	ft.	
ft.	ft.	

### 21. REMARKS

## 22. Certification:

Francis Xavier Harrington  
Signature of Certified Well Contractor

3/15/2021  
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.



Apex Companies

# BORING NUMBER NHCW-11

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 2/6/2021 **COMPLETED** 2/6/2021 **GROUND ELEVATION** \_\_\_\_\_ **TOP OF CASING** \_\_\_\_\_  
**DRILLING CONTRACTOR** Walker-Hill Environmental **EQUIPMENT** \_\_\_\_\_  
**DRILLER** Mark Michaad **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Chris Trelles **BOREHOLE DIAMETER** 10 in. **DURING DRILLING** ---  
**METHOD** Sonic **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
5						
10						
15						
20						
25						
30						
35						
40						

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# WELL CONSTRUCTION RECORD (GW-1)

## 1. Well Contractor Information:

Francis Xavier Harrington  
Well Contractor Name  
4389 A  
NC Well Contractor Certification Number

Walker Hill Environmental  
Company Name

2. Well Construction Permit #: \_\_\_\_\_  
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

## 3. Well Use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2/6/2021 Well ID# NHLCW-11

5a. Well Location:  
Colonial Pipeline  
Facility/Owner Name  
Huntersville - Concord Rd, Huntersville  
Physical Address, City, and Zip  
mecklenburg 28098  
County Parcel Identification No. (PIN) 01940102

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)  
35.415299 N 80.806476 W

6. Is (are) the well(s)  Permanent or  Temporary

7. Is this a repair to an existing well:  Yes or  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: 1

9. Total well depth below land surface: 41 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "+"

11. Borehole diameter: 12 (in.)

12. Well construction method: Sonic  
(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					
FROM	TO	DESCRIPTION			
ft.	ft.				
ft.	ft.				
15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
ft.	ft.	in.			
16. INNER CASING OR TUBING (geothermal closed-loop)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
+1	16	4	in.	Sch 40	PVC
ft.	ft.	in.			
17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
16	41	4	in.	.010	Sch 40 PVC
ft.	ft.	in.			
18. GROUT					
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT		
12	14	Pellets	Poured 12-Buckets		
2	12	Cement	Trimmie 1/4-Bags		
ft.	ft.				
19. SAND/GRAVEL PACK (if applicable)					
FROM	TO	MATERIAL	EMPLACEMENT METHOD		
14	41	#2 Sand	Poured/Vibrate		
ft.	ft.				
20. DRILLING LOG (attach additional sheets if necessary)					
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)			
ft.	ft.				
ft.	ft.	No Soil Log			
ft.	ft.	Straight Drilled			
ft.	ft.				
ft.	ft.				
ft.	ft.				
ft.	ft.				
21. REMARKS					

## 22. Certification:

Francis Xavier Harrington 3/15/2021  
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

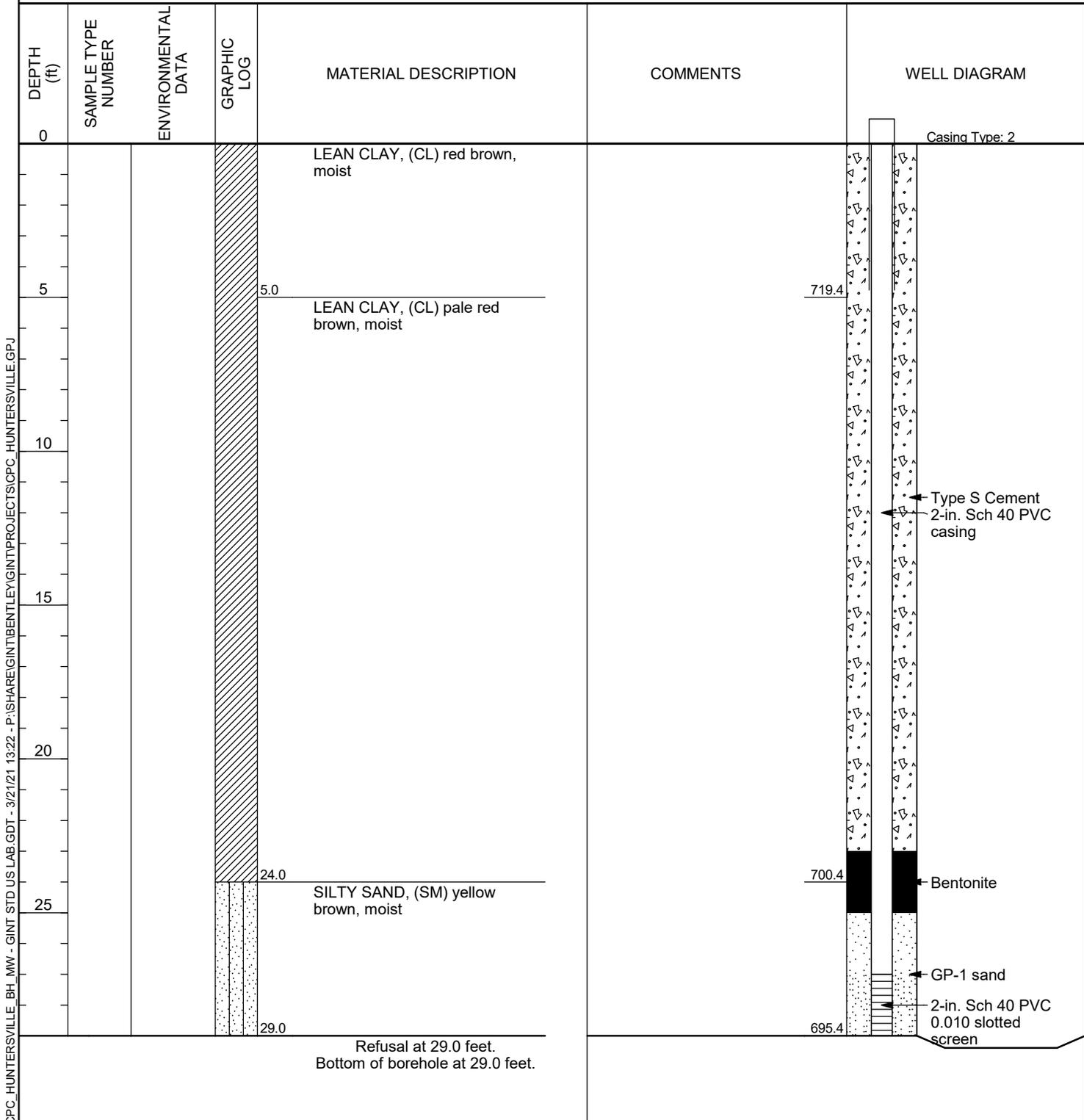
24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.



Apex Companies

# BORING NUMBER AS-02

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 12/9/2020 **COMPLETED** 12/9/2020 **GROUND ELEVATION** 724.39 ft **TOP OF CASING** 695.39 ft  
**DRILLING CONTRACTOR** Parratt-Wolff **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Zigler **BOREHOLE DIAMETER** 2 in. **DURING DRILLING** ---  
**METHOD** Sonic **AFTER DRILLING** ---



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**WELL CONSTRUCTION RECORD**

This form can be used for single or multiple wells

**1. Well Contractor Information:**

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

**2. Well Construction Permit #:**

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

**3. Well Use (check well use):**

**Water Supply Well:**

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

**Non-Water Supply Well:**

- Monitoring  Recovery

**Injection Well:**

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

4. Date Well(s) Completed: 12-9-20 Well ID# AS-02

**5a. Well Location:**

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

**5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:** (if well field, one lat/long is sufficient)

35.412792 N -80.806405 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 29 (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 27 (ft.)
If water level is above casing, use "-"

11. Borehole diameter: 2 (in.)

12. Well construction method: 8 1/4 HSA
(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:

Table with 3 columns: FROM, TO, DESCRIPTION. Row 1: 27 ft. to 29 ft. wet

Table with 5 columns: FROM, TO, DIAMETER, THICKNESS, MATERIAL. Row 1: ft. ft. in. sch40

Table with 6 columns: FROM, TO, DIAMETER, THICKNESS, MATERIAL. Row 1: 0 ft. 27 ft. 2 in. sch40 pvc

Table with 6 columns: FROM, TO, DIAMETER, SLOT SIZE, THICKNESS, MATERIAL. Row 1: 27 ft. 29 ft. 2 in. .010 sch40 pvc

Table with 4 columns: FROM, TO, MATERIAL, EMPLACEMENT METHOD & AMOUNT. Row 1: 0 ft. 23 ft. Portland Cem Tremie

Table with 4 columns: FROM, TO, MATERIAL, EMPLACEMENT METHOD. Row 1: 25 ft. 29 ft. #1 Sand Tremie

Table with 3 columns: FROM, TO, DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)

21. REMARKS: No cover

**22. Certification:**

Signature of Certified Well Contractor: [Signature] Date: 2.1.21

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 ONLY: In addition to sending the form to the address in 24a above, also submit a 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:**

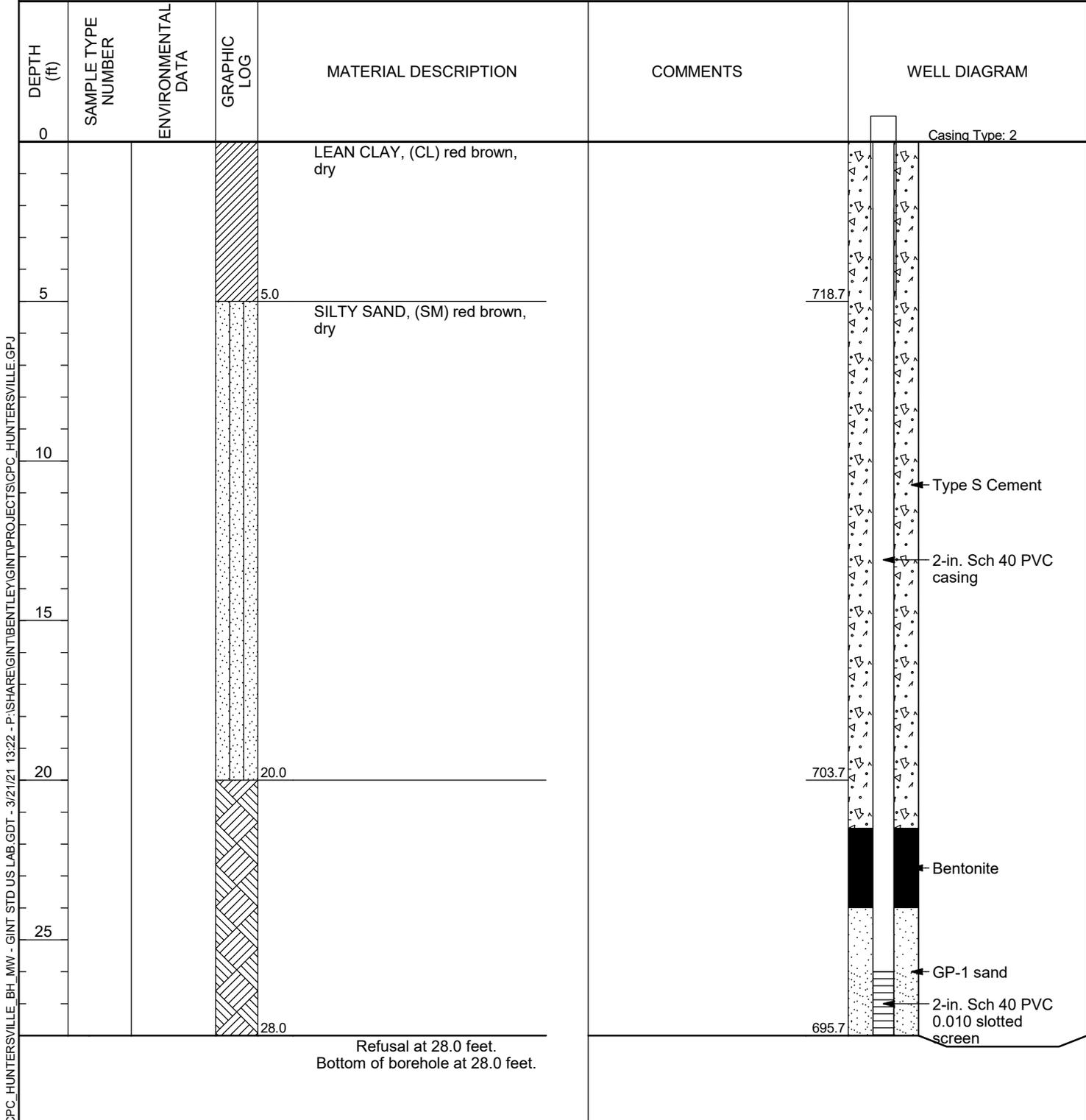
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.



Apex Companies

# BORING NUMBER AS-03

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 12/9/2020 **COMPLETED** 12/9/2020 **GROUND ELEVATION** 723.66 ft **TOP OF CASING** 723.49 ft  
**DRILLING CONTRACTOR** Parratt-Wolff **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Zigler **BOREHOLE DIAMETER** 2 in. **DURING DRILLING** ---  
**METHOD** \_\_\_\_\_ **AFTER DRILLING** ---



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# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

- Monitoring  Recovery

### Injection Well:

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

4. Date Well(s) Completed: 12-9-20 Well ID# AS-03

## 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

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

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

35.412731 N -80.806410 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 28 (ft.)

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

10. Static water level below top of casing: 26 (ft.)

If water level is above casing, use "-"

11. Borehole diameter: 2 (in.)

12. Well construction method: 8 1/4 HSA

(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

FROM	TO	DESCRIPTION
26 ft.	28 ft.	wet
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	26 ft.	2 in.	sch40	pvc
ft.	ft.	in.		

## 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
26 ft.	28 ft.	2 in.	.010	sch40	pvc
ft.	ft.	in.			

## 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	22 ft.	Portland Cem	Tremie
22 ft.	24 ft.	Bentonite Chi	Tremie
ft.	ft.		

## 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
24 ft.	28 ft.	#1 Sand	Tremie
ft.	ft.		

## 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

## 21. REMARKS

No cover

## 22. Certification:

Kevin E. Wolff  
Signature of Certified Well Contractor

1-21-21  
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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:

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.



Apex Companies

# BORING NUMBER AS-04

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 12/9/2020 **COMPLETED** 12/9/2020 **GROUND ELEVATION** 723.37 ft **TOP OF CASING** 723.06 ft  
**DRILLING CONTRACTOR** Parratt-Wolff **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Zigler **BOREHOLE DIAMETER** 2 in. **DURING DRILLING** ---  
**METHOD** \_\_\_\_\_ **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						Casing Type: 2
5				LEAN CLAY, (CL) red brown, dry		
10						713.4
15						Type S Cement 2-in. Sch 40 PVC casing
20						Bentonite
				LEAN CLAY WITH GRAVEL, (CL) gray brown, dry		703.4
						GP-1 sand
						702.4
						2-in. Sch 40 PVC 0.010 slotted screen
						701.4
				Refusal at 21.5 feet. Bottom of borehole at 22.0 feet.		

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# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

- Monitoring  Recovery

### Injection Well:

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

4. Date Well(s) Completed: 12-9-20 Well ID# AS-04

## 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

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

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

35.412578 N -80.806386 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 22 (ft.)

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

10. Static water level below top of casing: 20 (ft.)

If water level is above casing, use "..."

11. Borehole diameter: 2 (in.)

12. Well construction method: 8 1/4 HSA

(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

FROM	TO	DESCRIPTION
20 ft.	22 ft.	wet
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	20 ft.	2 in.	sch40	pvc
ft.	ft.	in.		

## 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
20 ft.	22 ft.	2 in.	.010	sch40	pvc
ft.	ft.	in.			

## 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	16 ft.	Portland Cem	Tremie
16 ft.	18 ft.	Bentonite Chi	Tremie
ft.	ft.		

## 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
18 ft.	22 ft.	#1 Sand	Tremie
ft.	ft.		

## 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

## 21. REMARKS

No cover

## 22. Certification:

Ku E. Wolff 1-13-21  
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 ONLY: In addition to sending the form to the address in 24a above, also submit a 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:

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.



Apex Companies

# BORING NUMBER AS-06

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 12/8/2020 **COMPLETED** 12/8/2020 **GROUND ELEVATION** 725.34 ft **TOP OF CASING** 725.28 ft  
**DRILLING CONTRACTOR** Parratt-Wolff **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Kyle Zigler **BOREHOLE DIAMETER** 2 in. **DURING DRILLING** ---  
**METHOD** \_\_\_\_\_ **AFTER DRILLING** 33.00 ft / Elev 692.34 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						Casing Type: 2
5			5.0	LEAN CLAY, (CL) red brown, moist		720.3
10				POORLY GRADED SAND WITH SILT, (SP-SM) brown, dry		
15						Type S Cement 2-in. Sch 40 PVC casing
20						
25						
30			30.0	CLAYEY SAND, (SC-SM) brown gray, moist		695.3
34.5			34.5	Refusal at 34.5 feet. Bottom of borehole at 34.5 feet.		690.8
						Bentonite GP-1 sand 2-in. Sch 40 PVC 0.010 slotted screen

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# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

- Monitoring  Recovery

### Injection Well:

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

4. Date Well(s) Completed: 12-8-20 Well ID# AS-06

## 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

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

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

35.412317 N -80.806364 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 33 (ft.)

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

10. Static water level below top of casing: 35 (ft.)

If water level is above casing, use "-"

11. Borehole diameter: 2 (in.)

12. Well construction method: 8 1/4 HSA

(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

FROM	TO	DESCRIPTION
33 ft.	35 ft.	wet
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	33 ft.	2 in.	sch40	pvc
ft.	ft.	in.		

## 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
33 ft.	35 ft.	2 in.	.010	sch40	pvc
ft.	ft.	in.			

## 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	29 ft.	Portland Cem	Tremie
29 ft.	31 ft.	Bentonite Chi	Tremie
ft.	ft.		

## 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
31 ft.	35 ft.	#1 Sand	Tremie
ft.	ft.		

## 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

## 21. REMARKS

No cover

## 22. Certification:

Kevin E. Wolff 1.8.20  
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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:

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.



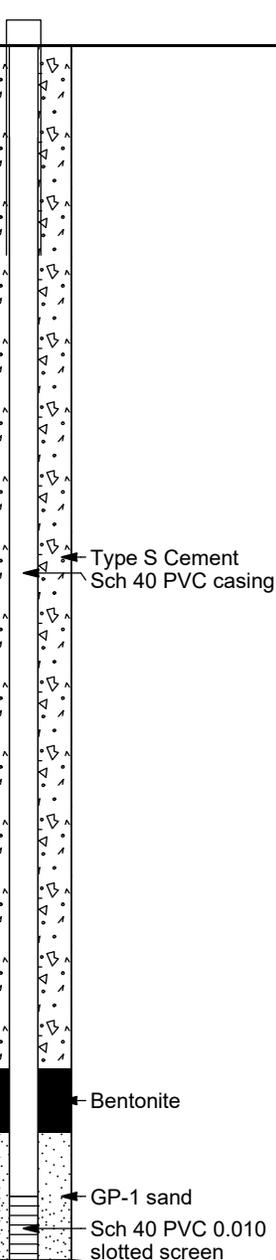
Apex Companies

# BORING NUMBER AS-07

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 12/6/2020 **COMPLETED** 12/7/2020 **GROUND ELEVATION** 726.45 ft **TOP OF CASING** 726.23 ft  
**DRILLING CONTRACTOR** \_\_\_\_\_ **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Bill Jones **BOREHOLE DIAMETER** 2 in. **DURING DRILLING** ---  
**METHOD** \_\_\_\_\_ **AFTER DRILLING** ---

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DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
5				CLAYEY SAND, (SC) dark brown, dry		721.5
10				CLAYEY SAND, (SC) dark brown, dry		716.5
15				CLAYEY SAND, (SC) dark brown, dry		711.5
20				LEAN CLAY WITH SAND, (CL-ML) gray, dry		706.5
25				LEAN CLAY WITH SAND, (CL-ML) gray, dry		701.5
30				LEAN CLAY WITH SAND, (CL-ML) gray, dry		696.5
35				LEAN CLAY WITH SAND, (CL-ML) gray, dry		691.5
38.0				Bottom of borehole at 38.0 feet.		688.5



# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

- Monitoring  Recovery

### Injection Well:

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

4. Date Well(s) Completed: 12-7-20 Well ID# AS-07

## 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)

35.412277 N -80.806163 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 38 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 36 (ft.)  
If water level is above casing, use "-"

11. Borehole diameter: 2 (in.)

12. Well construction method: 8 1/4 HSA  
(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

FROM	TO	DESCRIPTION
36 ft.	38 ft.	wet
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	36 ft.	2 in.	sch40	pvc
ft.	ft.	in.		

## 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
36 ft.	38 ft.	2 in.	.010	sch40	pvc
ft.	ft.	in.			

## 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	32 ft.	Portland Cem	Tremie
32 ft.	34 ft.	Bentonite Chi	Tremie
ft.	ft.		

## 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
34 ft.	38 ft.	#1 Sand	Tremie
ft.	ft.		

## 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

## 21. REMARKS

No cover

## 22. Certification:

Kevin E. Wolff 1.13.21  
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 ONLY: In addition to sending the form to the address in 24a above, also submit a 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:

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.



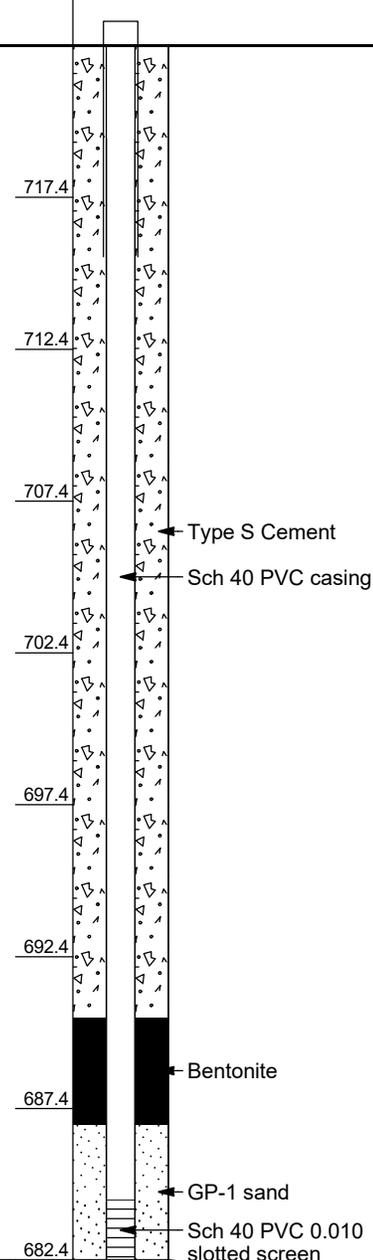
Apex Companies

# BORING NUMBER AS-09

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 12/6/2020 **COMPLETED** 12/6/2020 **GROUND ELEVATION** 722.38 ft **TOP OF CASING** 722.23 ft  
**DRILLING CONTRACTOR** \_\_\_\_\_ **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Bill Jones **BOREHOLE DIAMETER** 2 in. **DURING DRILLING** ---  
**METHOD** \_\_\_\_\_ **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
5				SANDY LEAN CLAY, (CL-ML) red brown, dry		717.4
10				SANDY LEAN CLAY, (CL-ML) red brown, dry		712.4
15				SANDY LEAN CLAY, (CL-ML) brown, dry		707.4
20				SANDY LEAN CLAY, (CL-ML) brown, dry		702.4
25				SANDY LEAN CLAY, (CL) gray, dry		697.4
30				SANDY LEAN CLAY, (CL) gray, dry		692.4
35				SANDY LEAN CLAY, (CL) gray, moist		687.4
40				Refusal at 40.0 feet. Bottom of borehole at 40.0 feet.		682.4

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# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

- Monitoring  Recovery

### Injection Well:

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

4. Date Well(s) Completed: 12-6-20 Well ID# AS-09

### 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

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

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

35.412477 N -80.805891 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 40 (ft.)

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

10. Static water level below top of casing: 38 (ft.)

If water level is above casing, use " "

11. Borehole diameter: 2 (in.)

12. Well construction method: 8 1/4 HSA

(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

FROM	TO	DESCRIPTION
38 ft.	40 ft.	wet
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	38 ft.	2 in.	sch40	pvc
ft.	ft.	in.		

### 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
38 ft.	40 ft.	2 in.	.010	sch40	pvc
ft.	ft.	in.			

### 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	34 ft.	Portland Cem	Tremie
34 ft.	36 ft.	Bentonite Chi	Tremie
ft.	ft.		

### 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
36 ft.	40 ft.	#1 Sand	Tremie
ft.	ft.		

### 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

### 21. REMARKS

No cover

### 22. Certification:

Kevin E. White 1.13.21  
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 ONLY: In addition to sending the form to the address in 24a above, also submit a 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:

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.



Apex Companies

# BORING NUMBER AS-10

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448

**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC

**DATE/TIME STARTED** 12/5/2020 **COMPLETED** 12/5/2020 **GROUND ELEVATION** 722.38 ft **TOP OF CASING** 722.30 ft

**DRILLING CONTRACTOR** **EQUIPMENT**

**DRILLER** **GROUND WATER LEVELS AND TIME:**

**LOGGED BY** Bill Jones **BOREHOLE DIAMETER** 2 in. **DURING DRILLING** ---

**METHOD** **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
5						
10						
15						
20						
25						
30						
35						

Type S Cement  
 Sch 40 PVC casing  
 Bentonite  
 GP-1 sand  
 Sch 40 PVC 0.010 slotted screen

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# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

### Water Supply Well:

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

### Non-Water Supply Well:

- Monitoring  Recovery

### Injection Well:

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

4. Date Well(s) Completed: 12-5-20 Well ID# AS-10

## 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

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

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

35.412585 N -80.805748 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 37 (ft.)

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

10. Static water level below top of casing: 35 (ft.)

If water level is above casing, use "-"

11. Borehole diameter: 2 (in.)

12. Well construction method: 8 1/4 HSA

(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

FROM	TO	DESCRIPTION
35 ft.	37 ft.	wet
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	35 ft.	2 in.	sch40	pvc
ft.	ft.	in.		

## 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
35 ft.	37 ft.	2 in.	.010	sch40	pvc
ft.	ft.	in.			

## 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	31 ft.	Portland Cem	Tremie
31 ft.	33 ft.	Bentonite Chi	Tremie
ft.	ft.		

## 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
33 ft.	37 ft.	#1 Sand	Tremie
ft.	ft.		

## 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

## 21. REMARKS

No cover

## 22. Certification:

  
Signature of Certified Well Contractor 1.13.21  
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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:

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.



Apex Companies

# BORING NUMBER AS-13

<b>CLIENT</b> Colonial Pipeline	<b>PROJECT NAME</b> 2020-L1-SR2448
<b>PROJECT NUMBER</b> CPC20126	<b>PROJECT LOCATION</b> Huntersville, NC
<b>DATE/TIME STARTED</b> 12/17/2020	<b>COMPLETED</b> 12/18/2020
<b>DRILLING CONTRACTOR</b> Parratt-Wolff	<b>EQUIPMENT</b>
<b>DRILLER</b>	<b>GROUND WATER LEVELS AND TIME:</b>
<b>LOGGED BY</b> Bill Jones	<b>BOREHOLE DIAMETER</b> 2 in.
<b>METHOD</b> Hollow Stem Auger 8.25"	<b>DURING DRILLING</b> ---
	<b>AFTER DRILLING</b> ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
10						<p>           Type S Cement            Sch 40 PVC casing            Bentonite            GP-1 sand            Sch 40 PVC 0.010 slotted screen         </p>
20						
30						
40						
50						
60						
70						

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**WELL CONSTRUCTION RECORD**

This form can be used for single or multiple wells

**1. Well Contractor Information:**

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

**2. Well Construction Permit #:**

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

**3. Well Use (check well use):**

**Water Supply Well:**

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

**Non-Water Supply Well:**

- Monitoring  Recovery

**Injection Well:**

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

**4. Date Well(s) Completed:** 12/17/20 Well ID# AS-13

**5a. Well Location:**

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

**5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:**  
(if well field, one lat/long is sufficient)

35.412977 N -80.805078 W

**6. Is (are) the well(s):**  Permanent or  Temporary

**7. Is this a repair to an existing well:**  Yes or  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. Number of wells constructed:** 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

**9. Total well depth below land surface:** 71 (ft.)

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

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

If water level is above casing, use "..."

**11. Borehole diameter:** 2 (in.)

**12. Well construction method:** 8 1/4 HSA

(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**

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	69 ft.	2 in.	sch40	pvc
ft.	ft.	in.		

**17. SCREEN**

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
69 ft.	71 ft.	2 in.	.010	sch40	pvc
ft.	ft.	in.			

**18. GROUT**

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	60 ft.	Portland Cem	Tremie
60 ft.	64 ft.	Bentonite Chi	Tremie
ft.	ft.		

**19. SAND/GRAVEL PACK (if applicable)**

FROM	TO	MATERIAL	EMPLACEMENT METHOD
64 ft.	71 ft.	#1 Sand	Tremie
ft.	ft.		

**20. DRILLING LOG (attach additional sheets if necessary)**

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

**21. REMARKS**

No cover

**22. Certification:**

Signature of Certified Well Contractor: *Kevin E. Wolff* Date: 1-6-21

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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:**

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.



Apex Companies

# BORING NUMBER AS-14

**CLIENT** Colonial Pipeline **PROJECT NAME** 2020-L1-SR2448  
**PROJECT NUMBER** CPC20126 **PROJECT LOCATION** Huntersville, NC  
**DATE/TIME STARTED** 12/18/2020 **COMPLETED** 12/18/2020 **GROUND ELEVATION** 725.07 ft **TOP OF CASING** 724.82 ft  
**DRILLING CONTRACTOR** Parratt-Wolff **EQUIPMENT** \_\_\_\_\_  
**DRILLER** \_\_\_\_\_ **GROUND WATER LEVELS AND TIME:**  
**LOGGED BY** Bill Jones **BOREHOLE DIAMETER** 2 in. **DURING DRILLING** ---  
**METHOD** Hollow Stem Auger 8.25" **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0          10          20          30          40          50          60						<p>The well diagram shows a vertical profile of the borehole. From the surface down to approximately 50 feet, there is a casing made of Sch 40 PVC, surrounded by Type S Cement. Below the casing, there is a layer of bentonite. Further down, there is a slough. At the bottom, there is GP-1 sand with a Sch 40 PVC 0.010 slotted screen at the very bottom.</p>

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**WELL CONSTRUCTION RECORD**

This form can be used for single or multiple wells

**1. Well Contractor Information:**

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

**2. Well Construction Permit #:**

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

**3. Well Use (check well use):**

<b>Water Supply Well:</b>	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
<b>Non-Water Supply Well:</b>	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
<b>Injection Well:</b>	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under #21 Remarks)

**4. Date Well(s) Completed:** 12/18/20 Well ID# AS-14

**5a. Well Location:**

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

**5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:**  
(if well field, one lat/long is sufficient)

35.413007 N -80.804950 W

**6. Is (are) the well(s):**  Permanent or  Temporary

**7. Is this a repair to an existing well:**  Yes or  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. Number of wells constructed:** 1  
For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

**9. Total well depth below land surface:** 61.5 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

**10. Static water level below top of casing:** (ft.)  
If water level is above casing, use " "

**11. Borehole diameter:** 2 (in.)

**12. Well construction method:** 8 1/4 HSA  
(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		
FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)				
FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
0 ft.	59.5 ft.	2 in.	sch40	pvc	
ft.	ft.	in.			

17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
59.5 ft.	61.5 ft.	2 in.	.010	sch40	pvc
ft.	ft.	in.			

18. GROUT			
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	54 ft.	Portland Cem	Tremie
54 ft.	57 ft.	Bentonite Chi	Tremie
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)			
FROM	TO	MATERIAL	EMPLACEMENT METHOD
57 ft.	61.5 ft.	#1 Sand	Tremie
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)		
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

**21. REMARKS**  
No cover

**22. Certification:**

Signature of Certified Well Contractor: *Kevin E. White* Date: 1.6.21

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 ONLY:** In addition to sending the form to the address in 24a above, also submit a 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:**

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.



Apex Companies

# BORING NUMBER AS-15

CLIENT Colonial Pipeline PROJECT NAME 2020-L1-SR2448

PROJECT NUMBER CPC20126 PROJECT LOCATION Huntersville, NC

DATE/TIME STARTED 12/18/2020 COMPLETED 12/20/2020 GROUND ELEVATION 723.49 ft TOP OF CASING 723.31 ft

DRILLING CONTRACTOR Parratt-Wolff EQUIPMENT \_\_\_\_\_

DRILLER \_\_\_\_\_ GROUND WATER LEVELS AND TIME:

LOGGED BY Bill Jones BOREHOLE DIAMETER 2 in. DURING DRILLING ---

METHOD Hollow Stem Auger 8.25" AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
5						<p>Type S Cement</p> <p>Sch 40 PVC casing</p> <p>Bentonite</p> <p>GP-1 sand</p> <p>Sch 40 PVC 0.010 slotted screen</p>
10						
15						
20						
25						
30						
35						
40						

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# WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

## 1. Well Contractor Information:

Kevin White

Well Contractor Name

2973

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

## 2. Well Construction Permit #:

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

## 3. Well Use (check well use):

<b>Water Supply Well:</b>	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
<b>Non-Water Supply Well:</b>	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
<b>Injection Well:</b>	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under #21 Remarks)

4. Date Well(s) Completed: 12/20/20 Well ID# AS-15

## 5a. Well Location:

Colonial Pipeline Company

Facility/Owner Name

Facility ID# (if applicable)

14511 Huntersville-Concord Road, Huntersville, NC 28078

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:  
(if well field, one lat/long is sufficient)

35.413028 N -80.804823 W

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

7. Is this a repair to an existing well:  Yes or  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. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 41 (ft.)  
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: \_\_\_\_\_ (ft.)  
If water level is above casing, use "-"

11. Borehole diameter: 2 (in.)

12. Well construction method: 8 1/4 HSA  
(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

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0	ft. 39	ft. 2	in. sch40	pvc
ft.	ft.	in.		

## 17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
39	ft. 41	ft. 2	in. .010	sch40	pvc
ft.	ft.	in.			

## 18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0	ft. 33	ft. Portland Cem	Tremie
33	ft. 36	ft. Bentonite Chi	Tremie
ft.	ft.		

## 19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
36	ft. 41	ft. #1 Sand	Tremie
ft.	ft.		

## 20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	

## 21. REMARKS

No cover

## 22. Certification:

Kevin E. White 1-6-21  
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 ONLY: In addition to sending the form to the address in 24a above, also submit a 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:

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 C**  
**GROUNDWATER SAMPLING LOGS**

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-01		DATE: 03/11/21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: 19 feet to 34 feet		DEPTH TO WATER (feet): 25.54		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)**

= ( 37.25 feet - 25.54 feet ) X 0.16 gallons/foot = 1.87 gallons

PUMP DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 0930	PURGING ENDED AT: 1045	TOTAL VOLUME PURGED (gallons): 3.75
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0945	0.75	0.2	25.68	14.90	6.31	196	0.136	29.7	8.58	Clear	No
0950	1.0	0.2	25.71	14.90	6.31	198	0.136	14.6	8.43	Clear	No
0955	1.25	0.2	25.69	15.08	6.32	200	0.136	17.9	8.28	Clear	No
1000	1.5	0.2	25.64	14.97	6.33	201	0.136	8.7	8.25	Clear	No
1005	1.75	0.2	25.70	15.99	6.28	203	0.136	10.1	7.71	Clear	No
1010	2.0	0.2	25.72	15.72	6.33	202	0.136	14.8	7.98	Clear	No
1015	2.25	0.2	25.82	15.95	6.29	205	0.136	14.3	7.75	Clear	No
1020	2.5	0.2	25.78	15.55	6.34	204	0.136	13.9	7.78	Clear	No
1025	2.75	0.2	25.80	15.43	6.31	206	0.136	10.1	7.80	Clear	No
1030	3.0	0.2	25.81	15.53	6.32	207	0.136	6.4	7.72	Clear	No
1035	3.25	0.2	25.83	15.46	6.33	208	0.136	4.5	7.56	Clear	No
1040	3.5	0.2	25.84	15.39	6.33	208	0.136	2.5	7.49	Clear	No
1045	3.75	0.2	25.85	15.44	6.34	209	0.136	1.1	7.42	Clear	No

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott Thorson / AECOM			SAMPLER(S) SIGNATURE(S): <i>Scott Thorson</i>				SAMPLE TIME: 1050		
PUMP OR TUBING DEPTH IN WELL (feet):			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N) Filtration Equipment Type: --			
FIELD DECONTAMINATION: PUMP (Y) N			TUBING Y (N) (replaced)			DUPLICATE: (Y) N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	4	AG	40 mL	HCL	40 mL x 4	6.34	6200	ESP	0.2
	3	AG	40 mL	HCL	40 mL x 3	6.34	VPH	ESP	0.2
	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.34	Lead by 6010	ESP	0.2

REMARKS: Monsoon S/N: 25118, Heron H. DIL S/N: 06097

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-02		DATE: 03-11-21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 19 feet to 34 feet		DEPTH TO WATER (feet): 27.43		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

1.07 = (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 1445	PURGING ENDED AT: 1540	TOTAL VOLUME PURGED (gallons): 3.5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1455	0	0.08	27.43	17.79	6.33	291	0.112	>1000	4.51	Light brown	None
1500	0.4		27.45	17.78	6.29	286	0.112	>1000	4.51		
1505	0.8		27.45	17.90	6.23	305	0.110	737	4.71		
1510	1.2		27.46	17.89	6.19	322	0.108	277	5.11		
1515	1.6		27.46	17.89	6.16	324	0.106	115	5.33		
1520	2.0		27.46	17.90	6.16	323	0.106	71.0	5.37		
1525	2.4		27.47	17.87	6.14	315	0.105	40.8	5.40		
1530	2.8		27.48	17.86	6.14	314	0.105	31.5	5.43		
1535	3.2		27.48	17.86	6.14	313	0.105	24.8	5.50		
1540	3.6		27.48	17.82	6.12	305	0.104	19.1	5.65		

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 1540			
PUMP OR TUBING DEPTH IN WELL (feet): 30				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N) (replaced)				DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-02	4	AG	40 mL	HCL	40 mL x 4	6.12	6200		ESP	0.08	
	3	AG	40 mL	HCL	40 mL x 3		VPH				
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010				

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-03	DATE: 3-9-2021
WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL <del>boc</del> DEPTH: 30.05 feet to 20.05 feet	DEPTH TO WATER (feet): 17.59	PUMP TYPE OR BAILER: Monsoon

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 30.05 feet - 17.59 feet ) X 0.16 gallons/foot = 1.99 gallons

PUMP DEPTH IN WELL (feet): 21'	PURGING INITIATED AT: 1440	PURGING ENDED AT: 1530	TOTAL VOLUME PURGED (gallons): 3.0
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1455	1.0	0.06	18.61	17.54	5.80	205	0.174	0.0	7.38	clear	none
1505	1.6	0.06	18.61	17.67	5.77	206	0.174	0.0	6.53	clear	none
1515	2.2	0.06	18.61	17.80	5.79	205	0.172	0.0	6.23	clear	none
1525	2.8	0.06	18.61	17.71	5.79	206	0.172	0.0	6.13	clear	none
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg); pointer-events: none;">                     DIAL                 </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AEROM	SAMPLER(S) SIGNATURE(S): <i>Adam Lee</i>	SAMPLE TIME: 1525
PUMP OR TUBING DEPTH IN WELL (feet): 21'	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced))	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-03	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	0.06
MW-03	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP	0.06
MW-03	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	ESP	0.06

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-04		DATE: 03-12-21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 10 feet to 40 feet		DEPTH TO WATER (feet): 28.89		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

1.81 = (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 0820	PURGING ENDED AT: 0920	TOTAL VOLUME PURGED (gallons):
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0825	0	0.1	28.90	15.58	6.38	402	0.086	>1000	7.68	Light brown	None
0830	0.5		28.92	16.17	6.36	407	0.085	>1000	7.46		
0835	1.0		28.94	16.59	6.35	409	0.085	713	7.39		
0840	1.5		28.95	16.74	6.39	407	0.086	532	7.40		
0845	2.0		28.96	16.73	6.40	408	0.087	250	7.39	Clear	
0850	2.5		28.97	16.71	6.41	371	0.088	189	7.46		
0855	3.0		28.98	16.77	6.40	386	0.088	141	7.35		
0900	3.5		28.98	16.89	6.38	392	0.088	137	7.21		
0905	4.0		29.01	17.08	6.36	403	0.088	102	7.10		
0910	4.5		29.02	17.11	6.37	402	0.088	86.1	7.01		
0915	5.0		29.02	17.02	6.43	401	0.088	70.2	6.87		
0920	5.5		29.03	17.06	6.45	400	0.088	59.8	6.98		

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 0920					
PUMP OR TUBING DEPTH IN WELL (feet): 35				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm					
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N)(replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-04	4	AG	40 mL	HCL	40 mL x 4	6.45	6200		ESP		0.1		
	3	AG	40 mL	HCL	40 mL x 3		VPH						
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010						

REMARKS:  
Parameters not stabilized, 3 well volumes purged

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-05		DATE: 03-10-21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 9 feet to 39 feet		DEPTH TO WATER (feet): 23.43		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)  
2.54 = (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 34	PURGING INITIATED AT: 1305	PURGING ENDED AT: 1425	TOTAL VOLUME PURGED (gallons):
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1310	0	0.1	23.43	20.05	6.49	355	0.089	>1000	6.88	Light brown	None
1315	0.5		23.43	19.97	5.99	395	0.074	824	4.56		
1320	1.0		23.44	19.68	6.02	390	0.074	768	4.62		
1325	1.5		23.44	19.52	6.03	389	0.075	686	4.71	Clear	
1330	2.0		23.44	19.42	6.05	387	0.075	610	4.75		
1335	2.5		23.45	19.05	6.04	397	0.076	578	5.29		
1340	3.0		23.46	18.74	6.02	413	0.077	544	5.40		
1345	3.5		23.46	18.49	6.11	413	0.079	366	5.40		
1350	4.0		23.47	18.56	6.17	402	0.079	240	5.21		
1355	4.5			18.62	6.20	398	0.080	201	5.07		
1400	5.0			18.76	6.23	393	0.080	177	4.91		
1405	5.5			18.72	6.22	397	0.081	165	4.89		
1410	6.0			18.69	6.21	402	0.082	141	4.87		
1415	6.5			18.61	6.19	408	0.084	127	4.86		
1420	7.0			18.57	6.17	412	0.084	115	4.84		
1425	7.5			18.53	6.16	417	0.085	100	4.82		

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Lei Tian / AECOM</i>				SAMPLER(S) SIGNATURE(S): <i>Lei</i>			SAMPLE TIME: 1425			
PUMP OR TUBING DEPTH IN WELL (feet): 51				TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N) Filteration Equipment Type: --			
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N)(replaced)			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW-05	4	AG	40 mL	HCL	40 mL x 4	6.16	6200	ESP	0.1	
	3	AG	40 mL	HCL	40 mL x 3		VPH			
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010			

REMARKS: Parameters not stabilized, 3 well volumes purged

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-06		DATE: 03/11/21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/4		WELL SCREEN INTERVAL DEPTH: 10 feet to 40 feet		DEPTH TO WATER (feet): 20.93		PUMP TYPE OR BAILER: Monsoon	
<b>WELL VOLUME PURGE:</b> 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( 40 feet - 20.93 feet ) X 0.16 gallons/foot = 3.05 gallons									
PUMP DEPTH IN WELL (feet): 25.0		PURGING INITIATED AT: 1140			PURGING ENDED AT: 1300			TOTAL VOLUME PURGED (gallons): 4.0	

TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1200	1.0	0.2	21.38	15.56	5.68	234	0.105	18.2	6.85	Clear	NO
1205	1.25	0.2	21.48	15.50	5.69	233	0.105	16.7	6.91	Clear	NO
1210	1.5	0.2	21.53	15.32	5.89	220	0.105	12.0	6.87	Clear	NO
1215	1.75	0.2	21.55	15.34	6.16	206	0.106	7.8	6.83	Clear	NO
1220	2.0	0.2	21.56	15.29	6.06	213	0.106	6.8	6.81	Clear	NO
1225	2.25	0.2	21.57	15.37	6.24	203	0.106	5.4	7.29	Clear	NO
1230	2.5	0.2	21.58	15.38	6.19	206	0.107	4.3	6.79	Clear	NO
1235	2.75	0.2	21.58	15.30	6.32	202	0.107	4.1	6.74	Clear	NO
1240	3.0	0.2	21.59	15.35	6.12	214	0.107	4.4	6.71	Clear	NO
1245	3.25	0.2	21.60	15.37	6.04	220	0.107	3.4	6.62	Clear	NO
1250	3.5	0.2	21.61	15.40	5.89	225	0.107	3.1	6.69	Clear	NO
1255	3.75	0.2	21.61	15.42	5.88	236	0.108	3.0	6.66	Clear	NO
1300	4.0	0.2	21.62	15.39	5.89	228	0.108	3.0	6.64	Clear	NO

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott Thorsen / AECOM				SAMPLER(S) SIGNATURE(S): <i>Scott Thorsen</i>				SAMPLE TIME: 1305			
PUMP OR TUBING DEPTH IN WELL (feet): 25.0				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm Filtration Equipment Type: --			
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	4	AG	40 mL	HCL	40 mL x 4	5.89	6200	ESP	0.2		
	3	AG	40 mL	HCL	40 mL x 3	5.89	VPH	ESP	0.2		
	1	PE	250 mL	HNO <sub>3</sub>	250 mL	5.89	Lead by 6010	ESP	0.2		
REMARKS:											

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-07</b>		DATE: <b>3.10.2021</b>	
WELL DIAMETER (inches): <b>2.0</b>		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: <b>20</b> feet to <b>35</b> feet		DEPTH TO WATER (feet): <b>29.34</b>		PUMP TYPE OR BAILER: <b>monsoon</b>	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): <b>33.0</b>	PURGING INITIATED AT: <b>1013</b>	PURGING ENDED AT: <b>1053</b>	TOTAL VOLUME PURGED (gallons):
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	+10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
<b>1008</b>	<b>0</b>		<b>30.06</b>	<b>15.59</b>	<b>5.93</b>	<b>298</b>	<b>0.171</b>	<b>&gt;1000</b>	<b>24.22</b>	<b>Brown</b>	<b>NO</b>
<b>1013</b>	<b>1.0</b>		<b>30.56</b>	<b>15.68</b>	<b>5.96</b>	<b>291</b>	<b>0.169</b>	<b>532</b>	<b>24.90</b>	<b>Brown</b>	<b>NO</b>
<b>1018</b>	<b>2.0</b>		<b>30.60</b>	<b>15.84</b>	<b>5.96</b>	<b>288</b>	<b>0.168</b>	<b>366</b>	<b>23.47</b>	<b>Brown</b>	<b>NO</b>
<b>1023</b>	<b>3</b>		<b>30.67</b>	<b>15.91</b>	<b>5.97</b>	<b>288</b>	<b>0.166</b>	<b>291</b>	<b>22.44</b>	<b>Lt Brn</b>	<b>NO</b>
<b>1028</b>	<b>4.0</b>		<b>30.69</b>	<b>16.00</b>	<b>5.97</b>	<b>291</b>	<b>0.165</b>	<b>229</b>	<b>21.22</b>	<b>Lt Brn</b>	<b>NO</b>
<b>1033</b>	<b>5.0</b>		<b>30.73</b>	<b>16.02</b>	<b>5.96</b>	<b>292</b>	<b>0.164</b>	<b>219</b>	<b>21.02</b>	<b>Clear</b>	<b>NO</b>
<b>1038</b>	<b>6.0</b>		<b>30.79</b>	<b>16.09</b>	<b>5.97</b>	<b>295</b>	<b>0.164</b>	<b>208</b>	<b>20.44</b>	<b>Clear</b>	<b>NO</b>
<b>1043</b>	<b>7.0</b>		<b>30.84</b>	<b>16.12</b>	<b>5.97</b>	<b>296</b>	<b>0.163</b>	<b>210</b>	<b>20.20</b>	<b>Clear</b>	<b>NO</b>
<b>1048</b>	<b>8.0</b>		<b>30.85</b>	<b>16.20</b>	<b>5.97</b>	<b>299</b>	<b>0.162</b>	<b>210</b>	<b>19.83</b>	<b>Clear</b>	<b>NO</b>
<b>1053</b>	<b>9.0</b>		<b>30.85</b>	<b>16.29</b>	<b>5.97</b>	<b>301</b>	<b>0.162</b>	<b>209</b>	<b>19.61</b>	<b>Clear</b>	<b>NO</b>

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Randy Morgan</b>				SAMPLER(S) SIGNATURE(S): <b>Randy Morgan</b>				SAMPLE TIME: <b>1055</b>			
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: <b>LDPE</b>				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N TUBING Y <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<b>MW-07</b>	<b>4</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 4</b>		<b>6200</b>		<b>ESP</b>		
<b>MW-07</b>	<b>3</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 3</b>		<b>VPH</b>		<b>ESP</b>		
<b>MW-07</b>	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO3</b>	<b>250 mL</b>		<b>Lead by 6010</b>		<b>ESP</b>		

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident			SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-07D		DATE: 3/9/2021		
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): 29.19		PUMP TYPE OR BAILER: monsoon pump			

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)  
= ( unknown feet - 29.19 feet) X 0.65 gallons/foot = ? gallons

PUMP DEPTH IN WELL (feet): 87	PURGING INITIATED AT: 1233	PURGING ENDED AT: 1300	TOTAL VOLUME PURGED (gallons): 5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)	STABILIZATION CRITERIA:		
												<0.3 ft. drawdown	within 3%	±0.1 unit
1233	0	0.2	29.19	16.68	7.75	-72	0.300	10.9	1.51	clear	none			
1240	1		31.09	15.91	7.70	75	0.337	88.8	0.59	clear	none			
1245	2		31.26	15.95	7.60	95	0.337	99.0	0.55	clear	none			
1250	3		31.44	15.97	7.62	104	0.337	99.9	0.53	clear	none			
1255	4		31.58	15.96	7.62	109	0.337	89.8	0.52	clear	none			
1300	5		31.85	15.98	7.61	113	0.337	86.7	0.49	clear	none			

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Emily Love / AECOM</i>	SAMPLER(S) SIGNATURE(S): <i>Emily R. Love</i>	SAMPLE TIME: 1300
PUMP OR TUBING DEPTH IN WELL (feet): 87	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) FILTER SIZE: -- μm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N replaced)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-07D	4	AG	40 mL	HCL	40 mL x 4	7.61	6200	ESP	0.2
I	3	AG	40 mL	HCL	40 mL x 3	I	VPH	I	I
I	1	PE	250 mL	HNO <sub>3</sub>	250 mL	I	Lead by 6010	I	I

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-08</b>	DATE: <b>3-12-2021</b>	
WELL DIAMETER (inches): <b>4"</b>	TUBING DIAMETER (inches): <b>3/8"</b>	WELL SCREEN INTERVAL <del>40</del> DEPTH: <b>47.44</b> feet to <b>17.44</b> feet		DEPTH TO WATER (feet): <b>29.98</b>		PUMP TYPE OR BAILER: <b>Monsoon</b>		

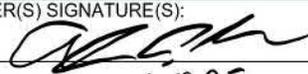
**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( **47.44** feet - **29.98** feet ) X **0.65** gallons/foot = **11.35** gallons

PUMP DEPTH IN WELL (feet): <b>35'</b>		PURGING INITIATED AT: <b>0935</b>		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):	
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>											
			<0.3 ft. drawdown	within 3%	+0.1 unit	+10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0950	1.5	0.1	31.26	16.54	6.14	205	0.144	2.2	8.25	clear	none
0955	2.0	0.1	31.40	16.59	6.08	210	0.144	2.1	8.16	clear	none
1000	2.5	0.1	31.53	16.66	6.00	216	0.144	1.7	8.08	clear	none
1005	3.0	0.1	31.66	16.71	5.89	224	0.144	2.0	7.99	clear	none
1010	3.5	0.1	31.75	16.79	6.16	210	0.144	1.77	7.77	clear	none
1015	4.0	0.1	31.80	16.85	6.19	208	0.145	1.5	7.58	clear	none
1020	4.5	0.1	31.88	16.90	6.18	209	0.145	1.8	7.49	clear	none

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Adam Lee AECOM</b>			SAMPLER(S) SIGNATURE(S): 			SAMPLE TIME:		
PUMP OR TUBING DEPTH IN WELL (feet): <b>35'</b>			TUBING MATERIAL CODE: <b>LDPE</b>			FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N) Filtration Equipment Type: --		
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N			TUBING Y <input checked="" type="checkbox"/> N (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-08	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	0.1
MW-08	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP	0.1
MW-08	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	ESP	0.1

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-09	DATE: 03-11-21
WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 19 feet to 34 feet	DEPTH TO WATER (feet): 28.79	PUMP TYPE OR BAILER: Monsoon

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY**  
(only fill out if applicable)

= (                    feet –                    feet) X                    gallons/foot =                    gallons

PUMP DEPTH IN WELL (feet): 32	PURGING INITIATED AT: 1115	PURGING ENDED AT: 1220	TOTAL VOLUME PURGED (gallons): 6.0
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1120	0	0.1	28.81	16.27	6.23	349	0.145	121	5.14	Clear	None
1125	0.5		28.81	16.33	6.20	326	0.146	129	5.16		
1130	1.0		28.82	16.58	6.21	292	0.146	87.3	4.98		
1135	1.5		28.83	16.73	6.22	269	0.147	63.0	4.80		
1140	2.0		28.83	16.77	6.22	256	0.147	49.2	4.74		
1145	2.5		28.85	16.87	6.23	241	0.147	31.5	4.69		
1150	3.0		28.86	16.89	6.23	237	0.147	28.5	4.66		
1155	3.5		28.88	16.82	6.16	225	0.148	19.5	4.76		
1200	4.0		28.90	16.91	6.13	230	0.148	12.2	4.75		
1205	4.5		29.93	16.88	6.13	232	0.148	8.4	4.69		
1210	5.0		29.94	16.90	6.14	235	0.148	5.1	4.65		
1215	5.5		29.96	16.91	6.15	234	0.148	3.8	4.71		
1220	6.0		30.01	16.91	6.16	234	0.148	3.2	4.70		

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 1220					
PUMP OR TUBING DEPTH IN WELL (feet): 32				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm					
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N)(replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-09	4	AG	40 mL	HCL	40 mL x 4	6.16	6200		ESP		0.1		
	3	AG	40 mL	HCL	40 mL x 3		VPH						
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010						

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-12	DATE: 3/11/21
WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 1 feet to 41.5 feet	DEPTH TO WATER (feet): 32.07	PUMP TYPE OR BAILER: ESP

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

= (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 39.5	PURGING INITIATED AT: 1355	PURGING ENDED AT: 1505	TOTAL VOLUME PURGED (gallons): 7.0
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1355	0	—	32.07	18.61	6.41	150	0.191	219	6.98	Clear	None
1400	0.5		32.07	18.88	6.36	128	0.189	141	6.47	" "	" "
1405	1.1		32.08	18.89	6.35	125	0.189	67.3	6.45	" "	" "
1410	1.6		32.08	18.91	6.35	113	0.190	25.5	6.42	" "	" "
1415	2.1		32.08	18.94	6.37	91	0.190	22.3	6.37	" "	" "
1420	2.7		32.08	18.92	6.38	78	0.191	18.4	6.13	" "	" "
1425	3.2		32.09	19.00	6.38	71	0.190	12.4	6.42	" "	" "
1430	3.8		32.09	19.01	6.39	67	0.191	7.9	6.15	" "	" "
1435	4.2		32.09	19.03	6.39	67	0.191	6.9	5.89	" "	" "
1440	4.7		32.10	18.87	6.37	68	0.191	5.5	5.81	" "	" "
1445	5.2		32.10	18.85	6.39	69	0.192	5.2	5.84	" "	" "
1450	5.8		32.11	18.88	6.38	69	0.192	4.5	5.86	" "	" "

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Tim Dickey / AECOM</b>			SAMPLER(S) SIGNATURE(S): 				SAMPLE TIME: 1500		
PUMP OR TUBING DEPTH IN WELL (feet): 47.5			TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N) Filtration Equipment Type: --			FILTER SIZE: -- µm	
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N			TUBING Y <input checked="" type="checkbox"/> N (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-12	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	
I	3	AG	40 mL	HCL	40 mL x 3		VPH	I	
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	I	
REMARKS:									

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <i>MW-13</i>		DATE: <i>03/12/21</i>			
WELL DIAMETER (inches): <i>4</i>	TUBING DIAMETER (inches): <i>3/8</i>	WELL SCREEN INTERVAL DEPTH: <i>15</i> feet to <i>60</i> feet			DEPTH TO WATER (feet): <i>39.98</i>		PUMP TYPE OR BAILER: <i>Monsoon XL</i>				
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( <i>60</i> feet - <i>39.98</i> feet) X <i>0.65</i> gallons/foot = <i>13</i> gallons											
PUMP DEPTH IN WELL (feet): <i>45</i>		PURGING INITIATED AT: <i>0945</i>			PURGING ENDED AT: <i>1035</i>			TOTAL VOLUME PURGED (gallons): <i>25</i>			

TIME	VOLUME PURGED (gallons)	PURGE RATE ( <del>ml</del> / min)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
<i>1000</i>	<i>0.75</i>	<i>200</i>	<i>41.15</i>	<i>17.97</i>	<i>6.00</i>	<i>182</i>	<i>0.225</i>	<i>15.6</i>	<i>1.38</i>	<i>Clear</i>	<i>No</i>
<i>1005</i>	<i>1.0</i>	<i>200</i>	<i>41.43</i>	<i>18.03</i>	<i>6.02</i>	<i>183</i>	<i>0.224</i>	<i>16.5</i>	<i>1.64</i>	<i>Clear</i>	<i>No</i>
<i>1010</i>	<i>1.25</i>	<i>200</i>	<i>41.71</i>	<i>18.06</i>	<i>6.00</i>	<i>192</i>	<i>0.222</i>	<i>12.9</i>	<i>1.71</i>	<i>Clear</i>	<i>No</i>
<i>1015</i>	<i>1.5</i>	<i>200</i>	<i>41.88</i>	<i>18.20</i>	<i>5.96</i>	<i>199</i>	<i>0.221</i>	<i>13.1</i>	<i>1.73</i>	<i>Clear</i>	<i>No</i>
<i>1020</i>	<i>1.75</i>	<i>200</i>	<i>41.97</i>	<i>18.19</i>	<i>5.96</i>	<i>201</i>	<i>0.221</i>	<i>12.1</i>	<i>2.00</i>	<i>Clear</i>	<i>No</i>
<i>1025</i>	<i>2.0</i>	<i>200</i>	<i>42.06</i>	<i>18.29</i>	<i>5.96</i>	<i>204</i>	<i>0.221</i>	<i>12.4</i>	<i>2.01</i>	<i>Clear</i>	<i>No</i>
<i>1030</i>	<i>2.25</i>	<i>200</i>	<i>42.11</i>	<i>18.25</i>	<i>5.97</i>	<i>206</i>	<i>0.221</i>	<i>12.2</i>	<i>1.98</i>	<i>Clear</i>	<i>No</i>
<i>1035</i>	<i>2.5</i>	<i>200</i>	<i>42.19</i>	<i>18.23</i>	<i>5.97</i>	<i>208</i>	<i>0.222</i>	<i>12.7</i>	<i>1.98</i>	<i>Clear</i>	<i>No</i>

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA												
SAMPLED BY (PRINT)/AFFILIATION: <i>Scott Thorson/AECOM</i>				SAMPLER(S) SIGNATURE(S): <i>Scott Thorson</i>				SAMPLE TIME: <i>1040</i>				
PUMP OR TUBING DEPTH IN WELL (feet): <i>45</i>			TUBING MATERIAL CODE: <i>LDPE</i>			FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/> Filtration Equipment Type: --			FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N <input type="radio"/> TUBING Y <input checked="" type="radio"/> (replaced) N <input type="radio"/>					DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	<i>4</i>	<i>AG</i>	<i>40 mL</i>	<i>HCL</i>	<i>40 mL x 4</i>			<i>6200</i>	<i>ESP</i>			
	<i>3</i>	<i>AG</i>	<i>40 mL</i>	<i>HCL</i>	<i>40 mL x 3</i>			<i>VPH</i>	<i>ESP</i>			
	<i>1</i>	<i>PE</i>	<i>250 mL</i>	<i>HNO<sub>3</sub></i>	<i>250 mL</i>			<i>Lead by 6010</i>	<i>ESP</i>			
REMARKS:												

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-14		DATE: 3-12-2021	
WELL DIAMETER (inches): 4.0		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: 11 feet to 41 feet		DEPTH TO WATER (feet): 30.03		PUMP TYPE OR BAILER: monsoon	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)  
 = (                      feet -                      feet ) X                      gallons/foot = 4.0 gallons

PUMP DEPTH IN WELL (feet): 37.0	PURGING INITIATED AT: 0750	PURGING ENDED AT: 0835	TOTAL VOLUME PURGED (gallons):
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0750	0		30.41	16.10	6.38	284	0.142	0.0	3.11	clear	N
0755	.50		30.59	16.36	6.28	285	0.142	4.3	3.15	clear	N
0800	1.0		30.73	16.60	6.20	288	0.142	2.9	3.24	clear	N
0805	1.5		30.73	16.52	6.24	287	0.142	8.4	3.10	clear	N
0810	2.0		30.63	16.38	6.22	286	0.142	7.2	3.01	clear	N
0815	2.5		30.58	16.43	6.22	285	0.143	5.1	3.06	clear	N
0820	3.0		30.58	16.64	6.19	282	0.144	4.3	3.16	clear	N
0825	3.5		30.62	16.97	6.19	281	0.144	3.4	3.22	clear	N
0830	4.0		30.72	16.99	6.21	280	0.144	1.9	3.18	clear	N

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Kandy Morgan / AECOM</i>			SAMPLER(S) SIGNATURE(S): <i>Kandy Morgan</i>			SAMPLE TIME: 0835				
PUMP OR TUBING DEPTH IN WELL (feet): 37.0			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N) FILTER SIZE: -- μm				
FIELD DECONTAMINATION: PUMP (Y) N			TUBING Y (N replaced)			DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW-14	4	AG	40 mL	HCL	40 mL x 4		6200	ESP		
MW-14	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP		
MW-14	1	PE	250 mL	HNO3	250 mL		Lead by 6010	ESP		
REMARKS:										

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-14D	DATE: 3/8/2021
WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	DEPTH TO WATER (feet): 28.28	PUMP TYPE OR BAILER: monsoon pump

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

= ( 198 feet - 28.28 feet) X 0.65 gallons/foot = 110.3 gallons

PUMP DEPTH IN WELL (feet): 68	PURGING INITIATED AT: 1435	PURGING ENDED AT: 1500	TOTAL VOLUME PURGED (gallons): 4.5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1435	0	0.18	28.28	18.74	9.00	144	0.545	>1000	3.42	milky	none
1440	0.96		29.89	17.42	8.95	136	0.569	>1000	2.29	milky	none
1445	1.92		31.20	17.78	8.94	131	0.570	>1000	2.03	milky	none
1450	2.88		32.77	17.34	8.95	124	0.576	>1000	1.90	milky	none
1455	3.84		33.61	17.52	8.96	117	0.575	>1000	1.82	milky	none
1500	4.5		34.70	17.51	8.97	114	0.578	>1000	1.84	milky	none

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM				SAMPLER(S) SIGNATURE(S): <i>Emily R. Love</i>			SAMPLE TIME: 1500	
PUMP OR TUBING DEPTH IN WELL (feet): 68				TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N) FILTER SIZE: -- μm		
FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N replaced)				DUPLICATE: Y (N)				

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-14D	4	AG	40 mL	HCL	40 mL x 4	8.97	6200	ESP	0.18
I	3	AG	40 mL	HCL	40 mL x 3	I	VPH	I	I
I	1	PE	250 mL	HNO3	250 mL	I	Lead by 6010	I	I

REMARKS: EB-1-20210308 collected @ 1410

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-15		DATE: 03-12-21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 24 feet to 39 feet		DEPTH TO WATER (feet): 34.62		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

= (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1140	TOTAL VOLUME PURGED (gallons): 3.5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1105	0	0.1	34.65	17.10	6.34	388	0.149	>1000	6.29	Light brown	None
1110	0.5		34.72	17.08	6.33	388	0.150	691	6.28		
1115	1.0		34.79	17.10	6.31	389	0.151	429	6.30		
1120	1.5		34.86	17.10	6.31	389	0.154	322	6.32		
1125	2.0		34.91	17.11	6.30	340	0.155	195	6.33		
1130	2.5		34.97	17.11	6.29	341	0.157	97.7	6.33	Clear	
1135	3.0		35.09	17.12	6.28	401	0.158	47.2	6.34		
1140	3.5		35.12	17.14	6.28	402	0.158	43.8	6.32		

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 1140					
PUMP OR TUBING DEPTH IN WELL (feet): 35				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm					
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N) (replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-15	4	AG	40 mL	HCL	40 mL x 4	6.28	6200		ESP		0.1		
	3	AG	40 mL	HCL	40 mL x 3		VPH						
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010						

REMARKS:  
Parameters not stabilized, 3 well volumes purged

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-16		DATE: 03-08-21			
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 25 feet to 51 feet		DEPTH TO WATER (feet): 33.55		PUMP TYPE OR BAILER: Monsoon			

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

= (                          feet -                          feet) X                          gallons/foot =                          gallons

PUMP DEPTH IN WELL (feet): 45		PURGING INITIATED AT: 0920		PURGING ENDED AT: 1000		TOTAL VOLUME PURGED (gallons): 1.4			
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0930	0.2	0.04	33.71	16.46	6.19	337	0.135	101.5	5.61	None	None
0935	0.4		33.82	16.49	6.20	340	0.132	92.1	4.09		
0940	0.6		33.98	16.50	6.20	342	0.130	86.5	3.78		
0945	0.8		34.26	16.55	6.22	347	0.129	78.0	3.61		
0950	1.0		34.41	16.70	6.22	343	0.129	79.6	3.57		
0955	1.2		33.79	16.76	6.23	337	0.129	77.9	3.55		
1000	1.4		34.95	16.77	6.24	343	0.129	75.6	3.62		

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 1000					
PUMP OR TUBING DEPTH IN WELL (feet): 45				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm					
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N)(replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-16	4	AG	40 mL	HCL	40 mL x 4	6.24	6200		ESP		0.04		
	3	AG	40 mL	HCL	40 mL x 3		VPH						
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010						

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-17		DATE: 03-08-21	
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 15 feet to 53.5 feet		DEPTH TO WATER (feet): 35.53		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

11.40 = (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 47	PURGING INITIATED AT: 1320	PURGING ENDED AT: 1420	TOTAL VOLUME PURGED (gallons): 5.0
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1330	0	0.1	35.56	18.41	5.86	387	0.092	370.9	1.57	Light brown	None
1335	0.5		35.71	18.62	5.85	386	0.091	240.5	1.21		
1340	1.0		35.87	18.92	5.84	385	0.089	201.6	0.49		
1345	1.5		35.95	19.30	5.83	388	0.089	121.7	0.77		
1350	2.0		36.17	19.36	5.85	384	0.085	72.3	0.98		
1355	2.5		36.30	19.36	5.80	389	0.086	75.6	1.01		
1400	3.0		36.79	19.64	5.85	386	0.085	110	2.78		
1405	3.5		36.91	19.67	5.87	386	0.085	149	2.86		
1410	4.0		37.29	19.67	5.87	386	0.084	152	2.88		
1415	4.5		37.51	19.68	5.88	385	0.083	150	2.90		
1420	5.0		37.89	19.69	5.89	385	0.083	142	2.91		

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 1420			
PUMP OR TUBING DEPTH IN WELL (feet): 47				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N)(replaced)				DUPLICATE: Y (N)							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-17	4	AG	40 mL	HCL	40 mL x 4	5.89	6200		ESP	0.1	
	3	AG	40 mL	HCL	40 mL x 3		VPH				
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010				

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: <b>MW-19</b>	DATE: <b>3/8/21</b>
WELL DIAMETER (inches): <b>4</b>	TUBING DIAMETER (inches): <b>3/8</b>	WELL SCREEN INTERVAL DEPTH: <b>16</b> feet to <b>36</b> feet	DEPTH TO WATER (feet): <b>30.52</b>	PUMP TYPE OR BAILER: <b>ESP</b>

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)  
 = ( \_\_\_\_\_ feet - \_\_\_\_\_ feet) X \_\_\_\_\_ gallons/foot = \_\_\_\_\_ gallons

PUMP DEPTH IN WELL (feet): <b>34'</b>	PURGING INITIATED AT: <b>1220</b>	PURGING ENDED AT: <b>1335</b>	TOTAL VOLUME PURGED (gallons): <b>6.9</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1220	0	—	30.52	19.08	6.70	26	0.236	194	1.91	Clear	None
1225	1		30.54	18.69	6.63	23	0.233	155	0.44	Clear	None
1230	1.7		30.56	18.80	6.61	27	0.234	150	0.30	Clear	None
1235	2.5		30.57	18.84	6.59	33	0.232	86.4	0.16	Clear	None
1240	3.0		30.59	18.81	6.57	37	0.230	52.6	0.20	Clear	None
1245	3.4		30.59	18.84	6.55	44	0.229	50.8	0.24	Clear	None
1250	4.0		30.60	18.90	6.53	53	0.225	44.7	0.31	Clear	None
1255	4.4		30.61	19.19	6.51	59	0.223	39.4	0.46	Clear	None
1300	4.9		30.63	19.09	6.45	71	0.219	22.2	0.54	Clear	None
1305	5.3		30.62	19.07	6.46	72	0.217	13.5	0.47	Clear	None
1310	5.7		30.63	19.06	6.47	74	0.216	8.7	0.46	Clear	None
1315	6.1		30.63	19.10	6.45	77	0.215	3.4	0.51	Clear	None
1320	6.5		30.65	19.12	6.44	79	0.215	4.2	0.54	Clear	None

**WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88**

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>T. Dickey / AECOM</b>	SAMPLER(S) SIGNATURE(S): 	SAMPLE TIME: <b>1325</b>
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PUMP OR TUBING DEPTH IN WELL (feet): <b>34</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y (N) FILTER SIZE: ___ μm Filtration Equipment Type: --
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FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N	TUBING Y <input checked="" type="checkbox"/> N (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<b>MW-19</b>	4	AG	40 mL	HCL	40 mL x 4		6200	<b>ESP</b>	
<b>MW-19</b>	3	AG	40 mL	HCL	40 mL x 3		VPH	<b>ESP</b>	
<b>MW-19</b>	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	<b>ESP</b>	

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-20		DATE: 3-10-2021	
WELL DIAMETER (inches): 2"		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL <sup>bnc</sup> DEPTH: 4.70 feet to 41.70 feet		DEPTH TO WATER (feet): 42.64		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 51.70 feet - 42.62 feet ) X 0.16 gallons/foot = 1.45 gallons

PUMP DEPTH IN WELL (feet): 45'	PURGING INITIATED AT: 1238	PURGING ENDED AT: 1318	TOTAL VOLUME PURGED (gallons): 5.5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1253	1.5	0.1	43.14	22.79	6.02	219	0.192	0.0	7.36	clear	None
1258	2.5	0.1	43.14	20.74	5.93	230	0.193	0.0	7.17	clear	None.
1303	3.5	0.1	43.14	20.52	5.86	240	0.192	0.0	6.89	clear	None
1308	4.5	0.1	43.14	20.45	5.83	246	0.192	0.0	6.76	clear	None
1313	5.0	0.1	43.14	20.40	5.80	246	0.192	0.0	6.65	clear	None.
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg);">                     AVAL                 </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AECOM		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLE TIME: 1313	
PUMP OR TUBING DEPTH IN WELL (feet): 45'		TUBING MATERIAL CODE: LOPE		FIELD-FILTERED: Y (N) FILTER SIZE: ___ µm	
FIELD DECONTAMINATION: PUMP (N)		TUBING Y (N replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-20	4	AG	40 mL	HCL	40 mL x 4	5.86	6200	ESP	0.1
MW-20	3	AG	40 mL	HCL	40 mL x 3	5.80	VPH	ESP	0.1
MW-20	1	PE	250 mL	HNO <sub>3</sub>	250 mL	5.80	Lead by 6010	ESP	0.1

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-21	DATE: 3/8/21
WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 15 feet to 50 feet	DEPTH TO WATER (feet): 30.90	PUMP TYPE OR BAILER: ESP

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 47	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1120	TOTAL VOLUME PURGED (gallons): 6.1
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1015	0		30.90	17.55	6.50	-7	0.272	290	0.68	Clear	None
1020	0.7		30.92	17.48	6.73	-48	0.288	194	0.08	Clear	None
1025	1.2		30.93	17.39	6.77	-53	0.288	174	0.00	Clear	None
1030	2.1		30.95	17.46	6.77	-54	0.288	113	0.02	Clear	None
1035	2.7		30.96	17.58	6.79	-55	0.288	87.4	0.00	Clear	None
1040	3.4		30.97	17.42	6.78	-56	0.288	88.0	0.00	Clear	None
1045	3.9		30.99	17.59	6.76	-54	0.286	87.6	0.00	Clear	None
1050	4.2		30.99	17.61	6.76	-55	0.285	87.8	0.00	Clear	None
1055	4.7		31.00	17.67	6.75	-54	0.284	88.2	0.00	Clear	None
1100	5.2		31.00	17.71	6.74	-53	0.283	87.2	0.00	Clear	None

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Dickey / AECOM	SAMPLER(S) SIGNATURE(S): <i>T. Dickey</i>	SAMPLE TIME: 11:10
PUMP OR TUBING DEPTH IN WELL (feet): 47'	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N) FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N	TUBING Y <input checked="" type="checkbox"/> (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	4	AG	40 mL	HCL	40 mL x 4		6200	ESP   I	
	3	AG	40 mL	HCL	40 mL x 3		VPH		
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010		

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident			SITE LOCATION: Huntersville, NC			PROJECT NUMBER: 60639876			WELL NAME: <b>MW-23</b>		DATE: <b>3/8/21</b>	
WELL DIAMETER (inches): <b>2</b>		TUBING DIAMETER (inches): <b>3/8</b>		WELL SCREEN INTERVAL DEPTH: <b>15</b> feet to <b>45</b> feet			DEPTH TO WATER (feet): <b>29.83</b>			PUMP TYPE OR BAILER: <b>Monsoon</b>		

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
(only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): <b>43'</b>	PURGING INITIATED AT: <b>0855</b>	PURGING ENDED AT: <b>1050</b>	TOTAL VOLUME PURGED (gallons): <b>5.4</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>											
			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
<b>0855</b>	<b>0</b>		<b>29.83</b>	<b>16.11</b>	<b>6.17</b>	<b>250</b>	<b>0.149</b>	<b>967</b>	<b>5.91</b>	<b>Cloudy</b>	<b>None</b>
<b>0900</b>	<b>1.2</b>		<b>29.86</b>	<b>16.65</b>	<b>6.11</b>	<b>248</b>	<b>0.137</b>	<b>531</b>	<b>6.45</b>	<b>Cloudy</b>	<b>None</b>
<b>0905</b>	<b>2.0</b>		<b>29.87</b>	<b>16.88</b>	<b>6.15</b>	<b>247</b>	<b>0.133</b>	<b>311</b>	<b>5.95</b>	<b>Sl. Cloudy</b>	<b>None</b>
<b>0910</b>	<b>2.8</b>		<b>29.87</b>	<b>16.97</b>	<b>6.15</b>	<b>248</b>	<b>0.133</b>	<b>289</b>	<b>6.27</b>	<b>" "</b>	<b>None</b>
<b>0915</b>	<b>3.5</b>		<b>29.88</b>	<b>16.83</b>	<b>6.16</b>	<b>249</b>	<b>0.133</b>	<b>291</b>	<b>6.11</b>	<b>" "</b>	<b>None</b>
<b>0920</b>	<b>4.1</b>		<b>29.88</b>	<b>17.04</b>	<b>6.16</b>	<b>249</b>	<b>0.133</b>	<b>288</b>	<b>5.99</b>	<b>" "</b>	<b>None</b>
<b>0925</b>	<b>4.7</b>		<b>29.89</b>	<b>17.07</b>	<b>6.16</b>	<b>249</b>	<b>0.133</b>	<b>292</b>	<b>5.89</b>	<b>" "</b>	<b>None</b>
<b>0930</b>	<b>5.2</b>		<b>29.89</b>	<b>17.00</b>	<b>6.16</b>	<b>247</b>	<b>0.132</b>	<b>290</b>	<b>5.97</b>	<b>" "</b>	<b>None</b>

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>T. Dickel / AECOM</b>			SAMPLER(S) SIGNATURE(S):			SAMPLE TIME: <b>0940</b>	
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PUMP OR TUBING DEPTH IN WELL (feet): <b>43'</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y <input checked="" type="radio"/> <b>N</b>	FILTER SIZE: <u>    </u> μm
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FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> <b>N</b>	TUBING <input checked="" type="radio"/> <b>Y</b> ( <input checked="" type="radio"/> replaced)	DUPLICATE: <input checked="" type="radio"/> <b>Y</b> <input checked="" type="radio"/> <b>N</b>
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	<b>4</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 4</b>		<b>6200</b>	<b>ESP</b>	
	<b>3</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 3</b>		<b>VPH</b>	<b>ESP</b>	
	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO3</b>	<b>250 mL</b>		<b>Lead by 6010</b>	<b>ESP</b>	

REMARKS: **Water was full of very fine sand.**

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-25		DATE: 3-10-21	
WELL DIAMETER (inches): 2"		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 61.05 feet to 46.05 feet		DEPTH TO WATER (feet): 44.44		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 61.05 feet - 44.44 feet ) X 0.16 gallons/foot = 2.65 gallons

PUMP DEPTH IN WELL (feet): 50'	PURGING INITIATED AT: 1346	PURGING ENDED AT: 1426	TOTAL VOLUME PURGED (gallons): 4.0
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1406	2.0	0.10	44.78	18.66	6.09	235	0.254	>1000	5.39	Milky Brown	None
1411	2.5	0.10	44.78	18.67	6.11	238	0.254	>1000	4.89	Milky Brown	None
1416	3.0	0.10	44.78	18.78	6.12	240	0.254	>1000	4.71	Milky Brown	None
1421	3.5	0.10	44.78	18.72	6.12	243	0.254	>1000	4.70	Milky Brown	None

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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AECOM		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLE TIME: 1421	
PUMP OR TUBING DEPTH IN WELL (feet): 50'		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N) Filtration Equipment Type: --	
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N		TUBING Y <input checked="" type="checkbox"/> (replaced)		DUPLICATE: Y <input checked="" type="checkbox"/> (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-25	4	AG	40 mL	HCL	40 mL x 4	6.12	6200	ESP	0.16
MW-25	3	AG	40 mL	HCL	40 mL x 3	6.12	VPH	ESP	0.16
MW-25	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.12	Lead by 6010	ESP	0.10

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-25D		DATE: 3-10-2021	
WELL DIAMETER (inches): 4"		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): 47.43		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = (77.25 feet - 47.43 feet) X 0.65 gallons/foot = 19.38 gallons

PUMP DEPTH IN WELL (feet): 72'	PURGING INITIATED AT: 1457	PURGING ENDED AT: 1547	TOTAL VOLUME PURGED (gallons): 3.7
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>											
			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1512	0.75	0.05	47.82	17.94	7.57	34	0.370	5.0	2.93	clear	None
1517	1.00	0.25	47.82	17.94	7.58	10	0.370	4.8	2.23	clear	None
1522	1.50	0.10	49.66	18.14	7.54	-13	0.370	5.0	1.78	clear	None
1527	2.1	0.12	50.21	18.06	7.54	-30	0.370	5.0	1.41	clear	None
1532	2.5	0.08	50.21	18.49	7.55	-34	0.369	5.0	1.10	clear	None
1537	2.9	0.08	50.21	18.45	7.55	-36	0.369	4.9	1.11	clear	None
1542	3.3	0.08	50.21	18.49	7.54	-37	0.369	4.5	1.09	clear	None
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em; opacity: 0.5;">                     AM                 </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AECOM		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLE TIME: 1542	
PUMP OR TUBING DEPTH IN WELL (feet): 85'		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N) FILTER SIZE: -- μm	
FIELD DECONTAMINATION: PUMP (Y) N		TUBING Y (N replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-25D	4	AG	40 mL	HCL	40 mL x 4	7.54	6200	ESP	0.08
MW-25D	3	AG	40 mL	HCL	40 mL x 3	7.54	VPH	ESP	0.08
MW-25D	1	PE	250 mL	HNO <sub>3</sub>	250 mL	7.54	Lead by 6010	ESP	0.08

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-27		DATE: 3-10-2021	
WELL DIAMETER (inches): 2.0		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: 27 feet to 42 feet		DEPTH TO WATER (feet): 33.45		PUMP TYPE OR BAILER: monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot = 11 gallons

PUMP DEPTH IN WELL (feet): <u>37.0</u>		PURGING INITIATED AT: <u>1148</u>		PURGING ENDED AT: <u>1248</u>		TOTAL VOLUME PURGED (gallons):	
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1148	0		34.00	17.14	5.98	265	0.154	318	22.50	Lt Brn	NO
1153	.50		34.10	17.03	5.98	269	0.155	308	22.15	Lt Brn	NO
1158	1.0		34.14	16.96	6.00	277	0.156	298	21.26	Clear	NO
1203	2.0		34.09	17.12	6.03	281	0.157	295	20.78	Clear	NO
1208	3.0		34.37	16.98	6.02	286	0.158	250	20.41	Clear	NO
1213	4.0		34.30	16.50	6.04	268	0.160	260	20.26	Clear	NO
1218	5.0		34.32	16.43	6.03	239	0.160	243	21.30	Clear	NO
1223	6.0		34.33	16.52	6.03	227	0.160	230	19.62	Clear	NO
1228	7.0		34.34	16.55	6.04	223	0.160	5.41	19.17	Clear	NO
1233	8.0		34.32	16.69	6.04	223	0.159	5.78	18.59	Clear	NO
1238	9.0		34.44	16.58	6.04	223	0.159	2.50	18.37	Clear	NO
1243	10.0		34.46	16.58	6.04	221	0.159	2.27	17.99	Clear	NO
1248	11.0		34.44	16.62	6.04	220	0.160	3.62	17.89	Clear	NO

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Randy Morgan/AECOM</i>			SAMPLER(S) SIGNATURE(S): <i>Randy Morgan</i>			SAMPLE TIME: <u>1250</u>			
PUMP OR TUBING DEPTH IN WELL (feet): <u>37.00</u>			TUBING MATERIAL CODE: <u>LDPE</u>			FIELD-FILTERED: Y <input checked="" type="checkbox"/> FILTER SIZE: <u>  </u> μm Filtration Equipment Type: <u>  </u>			
FIELD DECONTAMINATION: PUMP <input type="checkbox"/> N      TUBING Y <input checked="" type="checkbox"/> (replaced)			DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-27	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	
MW-27	3	AG	40 mL	HCL	40 mL x 3		VPH		
MW-27	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010		
REMARKS:									

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-28		DATE: 03-08-21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 25 feet to 40 feet		DEPTH TO WATER (feet): 28.38		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

= (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1150	TOTAL VOLUME PURGED (gallons): 3.6
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1105	0	0.08	28.40	17.69	5.95	380	0.139	>1000	8.09	None	None
1110	0.4		28.42	17.91	5.96	379	0.140	>1000	7.65		
1115	0.8		28.47	18.08	5.96	377	0.143	942	6.95		
1120	1.2		25.51	18.35	5.97	369	0.156	202	6.75		
1125	1.6		28.55	18.44	5.97	366	0.159	172	5.91		
1130	2.0		28.58	18.53	5.98	363	0.161	102	5.66		
1135	2.4		28.63	18.67	5.98	365	0.161	111	5.30		
1140	2.8		28.67	18.84	5.99	368	0.161	122	4.84		
1145	3.2		28.70	18.84	6.00	368	0.161	115	4.72		
1150	3.6		28.75	18.84	6.01	368	0.161	113	4.59		

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM			SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>			SAMPLE TIME: 1150			
PUMP OR TUBING DEPTH IN WELL (feet): 35			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N)		FILTER SIZE: -- μm	
FIELD DECONTAMINATION: PUMP (Y) N			TUBING Y (N)(replaced)			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-28	4	AG	40 mL	HCL	40 mL x 4	6.01	6200	ESP	0.08
	3	AG	40 mL	HCL	40 mL x 3		VPH		
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010		

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-29		DATE: 3/11/21	
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: 10 feet to 50 feet		DEPTH TO WATER (feet): 29.49		PUMP TYPE OR BAILER: ESP	

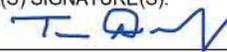
**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 47		PURGING INITIATED AT: 0900		PURGING ENDED AT: 1015		TOTAL VOLUME PURGED (gallons): 7.6	
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0900	0	—	29.49	14.43	6.07	131	0.175	146	8.83	Clear	None
0905	.6		29.50	14.78	6.21	130	0.171	114	8.71	Clear	None
0910	1.2		29.50	14.96	6.24	134	0.171	87.5	8.48	Clear	None
0915	2.0		29.51	14.98	6.25	137	0.170	69.0	8.38	" "	" "
0920	2.5		29.51	15.24	6.24	138	0.168	41.3	8.49	" "	" "
0925	3.1		29.51	15.45	6.25	137	0.168	35.9	7.85	" "	" "
0930	3.7		29.51	15.37	6.27	138	0.168	19.5	7.68	" "	" "
0935	4.1		29.50	15.50	6.26	143	0.168	10.5	7.37	" "	" "
0940	4.6		29.51	15.53	6.26	143	0.168	9.1	7.33	" "	" "
0945	5.1		29.51	15.59	6.26	145	0.168	6.2	7.16	" "	" "
0950	5.7		29.52	15.71	6.26	146	0.168	4.5	7.14	" "	" "
0955	6.0		29.52	15.73	6.26	146	0.168	4.1	7.17	" "	" "
1000	6.5		29.51	15.74	6.26	147	0.168	4.3	7.14	" "	" "

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Dickey / AEDOM			SAMPLER(S) SIGNATURE(S): 			SAMPLE TIME: 1010		
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PUMP OR TUBING DEPTH IN WELL (feet):		TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N)		FILTER SIZE: ___ μm	
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FIELD DECONTAMINATION: PUMP (Y) N		TUBING Y (N (replaced))		DUPLICATE: Y N	
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-29	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	
I	3	AG	40 mL	HCL	40 mL x 3		VPH	I	
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010		

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-30		DATE: 03-11-21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 20 feet to 35 feet		DEPTH TO WATER (feet): 28.62		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 1325	PURGING ENDED AT: 1405	TOTAL VOLUME PURGED (gallons): 3.5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1330	0	0.1	28.66	17.38	6.13	396	0.154	163	6.08	Clear	None
1335	0.5		28.71	17.43	6.06	388	0.152	52.2	5.50		
1340	1.0		28.75	17.36	6.00	388	0.152	31.6	5.48		
1345	1.5		28.79	17.28	5.97	389	0.152	14.1	5.45		
1350	2.0		28.82	17.21	6.01	387	0.151	11.9	5.58		
1355	2.5		28.87	17.13	5.98	392	0.151	5.6	5.56		
1400	3.0		28.91	17.17	5.98	399	0.151	5.0	5.47		
1405	3.5		28.95	17.13	5.95	401	0.152	5.7	5.48		

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 1405					
PUMP OR TUBING DEPTH IN WELL (feet): 30				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm					
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N)(replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-30	4	AG	40 mL	HCL	40 mL x 4	5.95	6200		ESP		0.1		
	3	AG	40 mL	HCL	40 mL x 3		VPH						
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010						

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-31		DATE: 3/8/21	
WELL DIAMETER (inches):		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: 14 feet to 44 feet		DEPTH TO WATER (feet): 27.26		PUMP TYPE OR BAILER: ESP	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)  
 = ( \_\_\_\_\_ feet - \_\_\_\_\_ feet) X \_\_\_\_\_ gallons/foot = \_\_\_\_\_ gallons

PUMP DEPTH IN WELL (feet): 42		PURGING INITIATED AT: 1425		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):	
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>											
			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1425	0		27.26	19.17	6.43	171	0.170	139	6.36	Clear	None
1430	0.75		27.29	18.89	6.26	176	0.178	102	5.25	Clear	None
1435	1.8		27.30	19.02	6.20	178	0.182	74.6	4.81	Clear	None
1440	2.4		27.30	19.01	6.19	179	0.182	72.1	4.54	Clear	None
1445	3.1		27.32	19.00	6.17	181	0.182	77.9	4.02	Clear	None
1450	3.7		27.33	19.03	6.10	188	0.181	79.7	3.96	Clear	None
1455	4.3		27.33	18.98	6.09	190	0.182	76.1	3.78	Clear	None
1500	4.8		27.34	19.02	6.13	190	0.182	75.8	3.77	Clear	None
1505	5.3		27.36	19.09	6.15	189	0.184	73.7	3.73	Clear	None
1510	5.6		27.36	19.12	6.19	188	0.184	71.2	3.78	Clear	None
1515	6.0		27.37	19.00	6.20	188	0.185	72.0	3.75	Clear	None
1520	6.4		27.37	19.03	6.22	188	0.186	74.3	3.81	Clear	None
1525	6.9		27.39	19.06	6.25	187	0.188	70.7	3.89	Clear	None
1530	7.3		27.40	19.08	6.27	185	0.188	71.1	3.90	Clear	None

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Dickey/AECOM			SAMPLER(S) SIGNATURE(S): 			SAMPLE TIME: 1540			
PUMP OR TUBING DEPTH IN WELL (feet): 42			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N) FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N			TUBING Y <input checked="" type="checkbox"/> N (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-31	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	
MW-31	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP	
MW-31	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	ESP	
REMARKS:									

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-32		DATE: 3/9/2021	
WELL DIAMETER (inches): 2"		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 28.21 feet to 13.21 feet		DEPTH TO WATER (feet): 11.72		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = (28.21 feet - 11.72 feet) X 0.16 gallons/foot = 2.63 gallons

PUMP DEPTH IN WELL (feet): 17'	PURGING INITIATED AT: 1227	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 3.1
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>											
			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1242	1.1	0.07	12.25	17.41	6.07	218	0.147	0.0	9.14	clear	None
1252	1.7	0.06	12.27	17.48	6.04	221	0.146	0.0	8.68	clear	None
1302	2.3	0.06	12.27	17.38	6.02	226	0.146	0.0	8.24	clear	None
1312	2.9	0.06	12.27	17.37	6.01	230	0.146	0.0	8.36	clear	None
<div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 0; left: 0; bottom: 0; right: 0; border-left: 1px solid black; border-right: 1px solid black;"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em; font-weight: bold;">APL</div> </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AECOM		SAMPLER(S) SIGNATURE(S): <i>Adam Lee</i>		SAMPLE TIME: 1312	
PUMP OR TUBING DEPTH IN WELL (feet): 17'		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N) FILTER SIZE: -- µm	
FIELD DECONTAMINATION: PUMP (Y) N		TUBING Y (N (replaced))		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-32	4	AG	40 mL	HCL	40 mL x 4	6.01	6200	ESP	0.06
MW-32	3	AG	40 mL	HCL	40 mL x 3	6.01	VPH	ESP	0.06
MW-32	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.01	Lead by 6010	ESP	0.06

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

GROUNDWATER SAMPLING LOG

Header information table including SITE, PROJECT, WELL NAME, DATE, WELL DIAMETER, TUBING DIAMETER, WELL SCREEN INTERVAL, DEPTH TO WATER, and PUMP TYPE OR BAILER.

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY

Summary table for PURGING INITIATED AT, PURGING ENDED AT, PUMP DEPTH IN WELL, and TOTAL VOLUME PURGED.

Main data table with columns for TIME, VOLUME PURGED, PURGE RATE, DEPTH TO WATER, TEMP, pH, ORP, COND., TURB., DO, COLOR, and ODOR. Includes stabilization criteria and handwritten data points.

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

Table for SAMPLING DATA including SAMPLER(S) SIGNATURE(S), SAMPLE TIME, and SAMPLE ID CODE.

Table for PUMP OR TUBING DEPTH IN WELL, TUBING MATERIAL CODE, and FIELD-FILTERED status.

Table for FIELD DECONTAMINATION status (PUMP, TUBING) and DUPLICATE status.

Table for SAMPLE CONTAINER SPECIFICATION and SAMPLE PRESERVATION (including wet ice), including columns for material code, volume, preservative, and intended analysis method.

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-34</b>		DATE: <b>03/09/2021</b>	
WELL DIAMETER (inches):		TUBING DIAMETER (inches): <b>3/8</b>		WELL SCREEN INTERVAL DEPTH: <b>5</b> feet to <b>23.14</b> feet		DEPTH TO WATER (feet): <b>6.26</b>		PUMP TYPE OR BAILER: <b>Monsoon</b>	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): <b>12</b>	PURGING INITIATED AT: <b>1310</b>	PURGING ENDED AT: <b>1340</b>	TOTAL VOLUME PURGED (gallons): <b>3.0</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
<b>1310</b>	<b>0.00</b>	<b>0.1</b>	<b>7.03</b>	<b>16.47</b>	<b>6.15</b>	<b>225</b>	<b>0.235</b>	<b>235</b>	<b>7.83</b>	<b>Clear</b>	<b>None</b>
<b>1315</b>	<b>0.5</b>		<b>7.75</b>	<b>14.90</b>	<b>6.02</b>	<b>245</b>	<b>0.230</b>	<b>117</b>	<b>6.86</b>		
<b>1320</b>	<b>1.0</b>		<b>7.73</b>	<b>15.09</b>	<b>6.03</b>	<b>244</b>	<b>0.225</b>	<b>89.2</b>	<b>6.51</b>		
<b>1325</b>	<b>1.5</b>		<b>7.65</b>	<b>15.24</b>	<b>6.03</b>	<b>226</b>	<b>0.223</b>	<b>70.5</b>	<b>6.24</b>		
<b>1330</b>	<b>2.0</b>		<b>7.57</b>	<b>15.27</b>	<b>6.02</b>	<b>201</b>	<b>0.216</b>	<b>49.1</b>	<b>5.72</b>		
<b>1335</b>	<b>2.5</b>		<b>7.55</b>	<b>15.56</b>	<b>6.02</b>	<b>194</b>	<b>0.213</b>	<b>51.5</b>	<b>5.49</b>		
<b>1340</b>	<b>3.0</b>		<b>7.58</b>	<b>15.58</b>	<b>6.02</b>	<b>191</b>	<b>0.213</b>	<b>52.4</b>	<b>5.22</b>		
AD											

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Andrew O'Malia / AECOM</b>			SAMPLER(S) SIGNATURE(S): <b>A O'M</b>			SAMPLE TIME: <b>1345</b>			
PUMP OR TUBING DEPTH IN WELL (feet): <b>12</b>			TUBING MATERIAL CODE: <b>LDPE</b>			FIELD-FILTERED: Y <input checked="" type="checkbox"/> Filtration Equipment Type: --			
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N			TUBING Y <input checked="" type="checkbox"/> (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<b>MW-34</b>	<b>4</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 4</b>	<b>6.02</b>	<b>6200</b>	<b>ESP</b>	<b>0.1</b>
<b>↓</b>	<b>3</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 3</b>	<b>↓</b>	<b>VPH</b>	<b>↓</b>	<b>↓</b>
	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO<sub>3</sub></b>	<b>250 mL</b>		<b>Lead by 6010</b>	<b>↓</b>	<b>↓</b>

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-35</b>		DATE: <b>3-9-2021</b>	
WELL DIAMETER (inches):		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL <sup>to c</sup> DEPTH: <b>40.31</b> feet to <b>27.31</b> feet		DEPTH TO WATER (feet): <b>21.87</b>		PUMP TYPE OR BAILER: <b>Monsoon</b>	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( **40.31** feet - **21.87** feet ) X **0.16** gallons/foot = **2.95** gallons

PUMP DEPTH IN WELL (feet): <b>30'</b>	PURGING INITIATED AT: <b>1552</b>	PURGING ENDED AT: <b>1647</b>	TOTAL VOLUME PURGED (gallons): <b>5.5</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1607	1.5	0.1	22.24	16.65	6.27	203	0.193	33.2	9.80	clear	none
1612	2.0	0.1	22.24	16.67	6.26	202	0.193	20.1	9.26	clear	none
1617	2.5	0.1	22.24	16.67	6.27	200	0.193	18.2	9.01	clear	none
1622	3.0	0.1	22.24	16.67	6.27	199	0.192	11.0	8.76	clear	none
1627	3.5	0.1	22.24	16.63	6.27	199	0.192	11.2	8.55	clear	none
1632	4.0	0.1	22.24	16.59	6.26	200	0.192	0.0	8.39	clear	none
1637	4.5	0.1	22.24	16.63	6.26	201	0.192	0.0	8.24	clear	none
1642	5.0	0.1	22.24	16.59	6.26	202	0.192	0.0	8.09	clear	none
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**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Adam Lee AECOM</b>				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLE TIME: <b>1642</b>			
PUMP OR TUBING DEPTH IN WELL (feet): <b>30'</b>				TUBING MATERIAL CODE: <b>LDPE</b>				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N (replaced))				DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-35	4	AG	40 mL	HCL	40 mL x 4	6.26	6200	ESP	0.1		
MW-35	3	AG	40 mL	HCL	40 mL x 3	6.26	VPH	ESP	0.1		
MW-35	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.26	Lead by 6010	ESP	0.1		
REMARKS:											

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-36		DATE: 03-10-21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 27 feet to 42 feet		DEPTH TO WATER (feet): 23.89		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 2.96 = (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 1505	PURGING ENDED AT: 1600	TOTAL VOLUME PURGED (gallons): 9
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1510	0	0.18	23.90	17.25	6.38	391	0.169	>1000	6.56	Light brown	NONE
1515	0.9		23.90	16.98	6.22	397	0.169	962	6.42		
1520	1.8		23.95	16.77	6.19	403	0.169	723	6.27		
1525	2.7		23.98	16.77	6.24	398	0.173	391	6.15	Clear	
1530	3.6		24.01	16.77	6.30	391	0.176	88.5	5.85		
1535	4.5		24.02	16.71	6.27	388	0.176	69.9	5.88		
1540	5.4		24.04	16.68	6.21	382	0.176	50.7	5.91		
1545	6.3		24.06	16.66	6.16	376	0.176	27.3	5.98		
1550	7.2		24.09	16.66	6.12	390	0.176	12.7	5.82		
1555	8.1		24.11	16.76	6.05	401	0.175	10.3	5.73		
1600	9		24.12	16.77	6.04	403	0.175	5.77	5.76		

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 1600					
PUMP OR TUBING DEPTH IN WELL (feet): 35				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm					
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N)(replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-36	4	AG	40 mL	HCL	40 mL x 4	6.04	6200		ESP		0.18		
	3	AG	40 mL	HCL	40 mL x 3		VPH						
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010						

REMARKS: Parameters not stabilized, 3 well volumes purged

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-36D		DATE: 3/9/2021	
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): 23.41		PUMP TYPE OR BAILER: monsoon pump	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= ( unknown feet - 23.41 feet ) X 0.65 gallons/foot = ? gallons

PUMP DEPTH IN WELL (feet): 75		PURGING INITIATED AT: 1435		PURGING ENDED AT: 1520		TOTAL VOLUME PURGED (gallons): 5	
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1435	0	0.11	23.41	16.84	9.37	112	0.372	>1000	2.65	milky	none
1440	0.55		24.64	16.42	9.80	55	0.506	>1000	0.39	milky	none
1445	1.10		25.07	16.54	9.61	30	0.515	>1000	0.19	milky	none
1450	1.65		25.94	16.51	9.49	-1	0.519	>1000	0.05	milky	none
1455	2.2		26.65	16.73	9.46	-25	0.514	>1000	0.00	milky	none
1500	2.75		27.08	16.89	9.46	-42	0.508	>1000	0.00	milky	none
1505	3.3		27.58	16.29	9.45	-55	0.488	>1000	0.00	milky	none
1510	3.85		27.90	17.30	9.45	-58	0.493	>1000	0.00	milky	none
1515	4.4		28.36	17.30	9.44	-62	0.486	>1000	0.00	milky	none
1520	5		28.80	17.38	9.42	-68	0.478	>1000	0.00	milky	none

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM		SAMPLER(S) SIGNATURE(S): Emily R. Love		SAMPLE TIME: 1520	
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PUMP OR TUBING DEPTH IN WELL (feet): 75		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N)      FILTER SIZE: -- μm	
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FIELD DECONTAMINATION: PUMP (Y) N      TUBING Y (N (replaced))		DUPLICATE: Y (N)	
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-36D	4	AG	40 mL	HCL	40 mL x 4	9.42	6200	ESP	0.11
I	3	AG	40 mL	HCL	40 mL x 3	I	VPH	I	I
I	1	PE	250 mL	HNO <sub>3</sub>	250 mL	I	Lead by 6010	I	I

REMARKS: couldn't get pump past 80' possible obstruction

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: <b>MW-38</b>
DATE: <b>3/10/21</b>			
WELL DIAMETER (inches): <b>4</b>	TUBING DIAMETER (inches): <b>3/8</b>	WELL SCREEN INTERVAL DEPTH: <b>20</b> feet to <b>50</b> feet	DEPTH TO WATER (feet): <b>39.15</b>
PUMP TYPE OR BAILER:			<b>ESP</b>

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): <b>48'</b>	PURGING INITIATED AT: <b>1135</b>	PURGING ENDED AT: <b>1315</b>	TOTAL VOLUME PURGED (gallons): <b>10.2</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1135	0	—	39.15	18.17	6.33	53	0.219	121	9.43	Clear	None
1140	0.7		39.18	18.54	6.28	47	0.215	103	8.69	Clear	None
1145	1.2		39.20	18.43	6.30	26	0.213	75.4	8.30	Clear	None
1150	2.0		39.21	18.51	6.29	19	0.213	42.9	8.00	" "	" "
1155	2.6		39.21	18.60	6.28	22	0.210	35.2	7.65	" "	" "
1200	3.3		39.21	18.68	6.27	24	0.210	28.7	7.53	" "	" "
1205	4.0		39.20	18.80	6.28	27	0.208	21.0	7.39	" "	" "
1210	4.3		39.20	18.98	6.28	29	0.208	19.2	7.01	" "	" "
1215	4.8		39.21	19.09	6.28	32	0.209	14.0	6.76	" "	" "
1220	5.4		39.21	19.12	6.28	33	0.209	11.1	6.58	" "	" "
1225	5.9		39.21	18.86	6.27	35	0.209	9.5	6.47	" "	" "
1230	6.4		39.22	18.57	6.27	35	0.210	9.3	6.25	" "	" "
1235	7.0		39.23	18.68	6.29	35	0.209	6.9	6.25	" "	" "
1240	7.5		39.23	18.71	6.29	38	0.209	4.1	6.19	" "	" "
1245	8.0		39.24	18.73	6.29	40	0.209	3.8	6.08	" "	" "
1250	8.4		39.24	18.77	6.29	40	0.209	4.0	6.01	" "	" "
1255	8.8		39.25	18.80	6.30	41	0.209	3.6	5.96	" "	" "

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>T. DieKey/AECOM</b>			SAMPLER(S) SIGNATURE(S): <i>T. DieKey</i>			SAMPLE TIME: <b>1305</b>				
PUMP OR TUBING DEPTH IN WELL (feet): <b>48</b>			TUBING MATERIAL CODE: <b>LDPE</b>			FIELD-FILTERED: <b>Y</b> <input checked="" type="radio"/> Filtration Equipment Type: --				
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> <b>Y</b> N			TUBING <b>Y</b> <input checked="" type="radio"/> <b>N (replaced)</b>			DUPLICATE: <input checked="" type="radio"/> <b>Y</b> N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	4	AG	40 mL	HCL	40 mL x 4		6200	<b>ESP</b>		
	3	AG	40 mL	HCL	40 mL x 3		VPH	<b>ESP</b>		
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	<b>ESP</b>		

REMARKS: **DUP-1-20210310**

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-41		DATE: 3.11.2021	
WELL DIAMETER (inches): 2.0		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: 50 feet to 65 feet		DEPTH TO WATER (feet): 54.23		PUMP TYPE OR BAILER: monsoon pump	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 60	PURGING INITIATED AT: 1320	PURGING ENDED AT: 1510	TOTAL VOLUME PURGED (gallons): 9.0
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1320	-0-		54.49	17.73	7.34	281	0.146	71000	7.56	Brn	N
1325	.5		54.38	18.00	7.34	280	0.149	735	5.69	Brn	N
1330	1.0		54.38	18.45	7.33	274	0.149	325	5.60	Brn	N
1335	1.5		54.38	18.73	7.33	274	0.151	330	5.41	Brn	N
1340	2.0		54.38	18.89	7.32	272	0.153	318	5.13	Brn	N
1345	2.5		54.38	20.34	7.31	274	0.152	301	4.46	Brn	N
1350	3.0		54.38	20.39	7.31	273	0.152	220	4.34	Lt Brn	N
1355	3.5		54.38	20.47	7.30	272	0.152	172	4.24	Lt Brn	N
1400	4.0		54.38	20.58	7.29	269	0.152	152	4.12	Lt Brn	N
1405	4.5		54.38	20.73	7.29	270	0.153	137	4.23	Lt Brn	N
1410	5.0		54.38	20.74	7.28	271	0.154	105	3.97	Lt Brn	N
1415	5.5		54.33	20.84	7.33	280	0.154	531	7.92	Lt Brn	N
<del>1420</del>	<del>6.0</del>		<del>54.32</del>	<del>20.65</del>	<del>7.29</del>	<del>271</del>	<del>0.151</del>	<del>764</del>	<del>6.22</del>	<del>Brn</del>	<del>N</del>
1437	6.0		54.46	19.58	7.29	271	0.151	769	6.22	Brn	N
1442	6.5		54.38	18.75	7.29	280	0.156	272	4.55	Brn	N
1447	7.0		54.38	18.95	7.26	280	0.158	169	3.99	Brn	N
1452	7.5		54.38	18.94	7.24	280	0.160	106	3.56	Brn	N
1457	8.0		54.38	18.90	7.23	280	0.160	102	3.08	Brn	N
1502	8.5		54.38	18.95	7.21	280	0.161	98.8	2.93	Lt Brn	N
1507	9.0		54.38	18.94	7.20	281	0.162	98.1	2.80	Lt Brn	N

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randy Morgan AECOM		SAMPLER(S) SIGNATURE(S): Randy Morgan		SAMPLE TIME: 1510
PUMP OR TUBING DEPTH IN WELL (feet): 60		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N) FILTER SIZE: -- μm
FIELD DECONTAMINATION: PUMP (Y) N		TUBING Y (N replaced)		DUPLICATE: Y. (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-41	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	
MW-41	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP	
MW-41	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	ESP	

REMARKS: 1418 pump stops  
1423 pump stops  
1435 received new battery, start purging again.

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-42		DATE: 03-09-21	
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 11 feet to 51 feet		DEPTH TO WATER (feet): 39.75		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

= (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 46	PURGING INITIATED AT: 0845	PURGING ENDED AT: 0950	TOTAL VOLUME PURGED (gallons): 5.5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0855	0	0.1	39.72	14.79	6.05	105	0.241	476	1.26	Light brown	None
0900	0.5		39.98	17.14	6.12	33	0.221	>1000	0.79		
0905	1.0		40.27	16.78	6.17	67	0.220	668	1.27		
0910	1.5		40.68	16.06	6.23	111	0.219	497	1.79		
0915	2.0		41.07	18.67	5.95	158	0.206	38.2	1.91		
0920	2.5		41.39	18.67	5.96	134	0.207	42.6	1.90		
0925	3.0		41.71	18.67	5.97	124	0.209	69.7	1.87		
0930	3.5		41.95	18.69	5.97	97	0.209	70.7	1.68		
0935	4.0		42.23	18.69	5.98	91	0.210	98.6	1.43		
0940	4.5		42.86	18.70	5.98	86	0.212	125	1.42		
0945	5.0		43.05	18.71	5.99	82	0.212	127	1.41		
0950	5.5		43.65	18.71	6.00	75	0.213	135	1.41		

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM			SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>			SAMPLE TIME: 0950			
PUMP OR TUBING DEPTH IN WELL (feet): 46			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N)		FILTER SIZE: -- μm	
FIELD DECONTAMINATION: PUMP (Y) N			TUBING Y (N) (replaced)			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-42	4	AG	40 mL	HCL	40 mL x 4	6.00	6200	ESP	0.1
	3	AG	40 mL	HCL	40 mL x 3		VPH		
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010		

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident; SITE LOCATION: Huntersville, NC; PROJECT NUMBER: 60639876; WELL NAME: MW-43; DATE: 03/12/21; WELL DIAMETER (inches): 4; TUBING DIAMETER (inches): 3/8; WELL SCREEN INTERVAL DEPTH: 12 feet to 47 feet; DEPTH TO WATER (feet): 38.66; PUMP TYPE OR BAILER: Minison XL

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY; = (47 feet - 38.66 feet) X 0.65 gallons/foot = 5.42 gallons

PUMP DEPTH IN WELL (feet): 43; PURGING INITIATED AT: 1145; PURGING ENDED AT: 1220; TOTAL VOLUME PURGED (gallons): 1.75

Table with 13 columns: TIME, VOLUME PURGED (gallons), PURGE RATE (ml/min), DEPTH TO WATER (feet), TEMP. (°C), pH (standard units), ORP (mV), COND. (mS/cm), TURB. (NTU), DO (mg/L), COLOR (describe), ODOR (describe). Includes stabilization criteria and data rows for times 1200, 1205, 1210, 1215, and 1220.

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott Thorson/AECOM; SAMPLER(S) SIGNATURE(S): [Signature]; SAMPLE TIME: 1225

PUMP OR TUBING DEPTH IN WELL (feet): 43; TUBING MATERIAL CODE: LDPE; FIELD-FILTERED: Y (N); FILTER SIZE: -- µm

FIELD DECONTAMINATION: PUMP N; TUBING Y (N(replaced)); DUPLICATE: Y (N)

Table with 8 columns: SAMPLE ID CODE, # CONTAINERS, MATERIAL CODE, VOLUME, PRESERVATIVE USED, TOTAL VOL ADDED IN FIELD (mL), FINAL pH, INTENDED ANALYSIS AND/OR METHOD, SAMPLING EQUIPMENT CODE, SAMPLE PUMP FLOW RATE (ml/min per minute). Contains three rows of sample data.

REMARKS: Horizon S/N: YG-JT37X7; Horizon #: 020977

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-44		DATE: 3-12-21	
WELL DIAMETER (inches): 4.0		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: 10.5 feet to 32.5 feet		DEPTH TO WATER (feet): 31.87		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 0913	PURGING ENDED AT: 0958	TOTAL VOLUME PURGED (gallons): 2.25
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0913	0		32.25	16.83	8.22	87	0.351	4.7	0.00	clear	N
0918	.25		32.48	16.80	8.61	33	0.345	17.6	0.00	clear	N
0923	.50		32.81	17.07	8.75	24	0.336	19.5	0.00	clear	N
0928	.75		33.12	17.26	8.99	28	0.328	19.6	0.00	clear	V
0933	1.0		33.49	17.39	9.19	35	0.322	25.5	0.00	clear	N
0938	1.25		33.55	17.58	9.33	40	0.323	23.0	0.00	clear	N
0943	1.50		33.79	17.51	9.43	39	0.324	39.1	0.00	clear	N
0948	1.75		34.23	18.14	9.53	33	0.327	33.4	0.00	Brn	N
0953	2.0		34.44	18.38	9.60	26	0.329	46.7	0.00	Brn	N
0958	2.25		34.89	18.42	9.63	24	0.328	49.8	0.00	Bnn	N

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randy Morgan / AECOM		SAMPLER(S) SIGNATURE(S): Randy Morgan		SAMPLE TIME: 1230 w/ bailer	
PUMP OR TUBING DEPTH IN WELL (feet): 35.0		TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) FILTER SIZE: -- μm	

FIELD DECONTAMINATION: PUMP  N TUBING Y  (replaced) DUPLICATE: Y  N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	4	AG	40 mL	HCL	40 mL x 4		6200		
	3	AG	40 mL	HCL	40 mL x 3		VPH		
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010		

REMARKS: Dry at 1000

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876	WELL NAME: <b>MW-45</b>	DATE: <b>3/12/21</b>
WELL DIAMETER (inches): <b>4</b>	TUBING DIAMETER (inches): <b>3/8</b>	WELL SCREEN INTERVAL DEPTH: <b>10</b> feet to <b>50</b> feet		DEPTH TO WATER (feet): <b>35.25</b>	PUMP TYPE OR BAILER: <b>ESP</b>	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)  
 = (                          feet -                          feet) X                          gallons/foot =                          gallons

PUMP DEPTH IN WELL (feet): <b>48</b>	PURGING INITIATED AT: <b>0925</b>	PURGING ENDED AT: <b>1045</b>	TOTAL VOLUME PURGED (gallons): <b>8.3</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0925	0	-	35.25	17.14	6.39	146	0.472	176	8.42	Clear	None
0930	0.6		35.29	17.13	6.35	142	0.467	133	7.96	" "	" "
0935	1.1		35.30	17.28	6.33	148	0.464	87.6	7.43	" "	" "
0940	1.7		35.30	17.37	6.34	155	0.458	66.1	7.01	" "	" "
0945	2.2		35.30	17.45	6.34	157	0.456	49.9	6.88	" "	" "
0950	2.8		35.31	17.47	6.34	160	0.450	31.0	6.56	" "	" "
0955	3.3		35.31	17.50	6.34	161	0.447	29.5	6.40	" "	" "
1000	3.7		35.31	17.56	6.34	162	0.443	21.8	6.02	" "	" "
1005	4.2		35.31	17.65	6.34	164	0.438	14.2	5.44	" "	" "
1010	4.8		35.32	17.69	6.35	165	0.433	7.5	5.47	" "	" "
1015	5.3		35.33	17.70	6.34	166	0.428	5.7	5.45	" "	" "
1020	5.8		35.33	17.73	6.35	166	0.427	4.9	5.39	" "	" "
1025	6.2		35.33	17.75	6.34	167	0.423	4.0	5.35	" "	" "
1030	6.7		35.33	17.79	6.35	167	0.421	4.2	5.37	" "	" "

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Tim Dickey / AECOM</b>	SAMPLER(S) SIGNATURE(S): 	SAMPLE TIME: <b>1040</b>
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PUMP OR TUBING DEPTH IN WELL (feet): <b>48</b>	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N)      FILTER SIZE: <b>--</b> µm
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FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N      TUBING Y <input checked="" type="checkbox"/> N (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<b>MW-45</b>	4	AG	40 mL	HCL	40 mL x 4		6200	<b>ESP</b>	
<b>I</b>	3	AG	40 mL	HCL	40 mL x 3		VPH		
<b>I</b>	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010		

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-46</b>		DATE: <b>3-12-2021</b>	
WELL DIAMETER (inches): <b>4.0</b>		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: <b>10</b> feet to <b>40</b> feet		DEPTH TO WATER (feet): <b>32.16</b>		PUMP TYPE OR BAILER: <b>monsoon</b>	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

= (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): <b>39.0</b>	PURGING INITIATED AT: <b>1027</b>	PURGING ENDED AT: <b>1152</b>	TOTAL VOLUME PURGED (gallons):
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1027	0.0		32.55	18.67	8.08	180	0.278	0.0	8.00	clear	N
1032	.50		32.90	18.30	7.97	183	0.282	0.0	6.60	clear	N
1037	1.0		33.20	18.35	8.01	186	0.283	0.0	5.72	clear	N
1042	1.5		33.50	18.41	8.08	188	0.283	0.0	4.91	clear	N
1052	2.0		33.59	18.80	8.00	191	0.281	0.0	0.84	clear	N
1057	2.5		33.83	18.66	7.90	196	0.284	0.0	0.00	clear	N
1102	3.0		33.98	18.77	7.84	197	0.284	0.0	0.00	clear	N
1107	3.5		34.17	18.86	7.79	195	0.283	0.0	0.00	clear	N
1112	4.0		34.22	19.07	7.73	191	0.283	0.0	0.00	clear	N
1117	4.5		34.35	19.09	7.63	189	0.284	0.0	0.50	clear	N
1122	5.0		34.37	19.21	7.56	184	0.283	0.0	0.00	clear	N
1127	5.5		34.52	19.11	7.50	181	0.284	0.0	0.00	clear	N
1132	6.0		34.78	19.27	7.43	176	0.283	0.0	0.00	clear	N
1137	6.5		35.05	19.15	7.39	173	0.283	0.0	6.00	clear	N
1142	7.0		35.28	19.29	7.38	169	0.282	0.0	0.00	clear	N
1147	7.5		35.47	19.38	7.39	166	0.281	0.0	0.00	clear	N
1152	8.0		35.60	19.55	7.44	161	0.280	0.0	0.00	clear	N

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Randy Morgan / AECOM</i>		SAMPLER(S) SIGNATURE(S): <i>Randy Morgan</i>		SAMPLE TIME: <b>1155</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>39.0</b>		TUBING MATERIAL CODE: <b>LDPE</b>		FIELD-FILTERED: Y <input checked="" type="radio"/> Filtration Equipment Type: --	
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N		TUBING Y <input checked="" type="radio"/> N (replaced)		DUPLICATE: Y <input checked="" type="radio"/> N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-46	4	AG	40 mL	HCL	40 mL x 4		6200	LDPE	
MW-46	3	AG	40 mL	HCL	40 mL x 3		VPH	LDPE	
MW-46	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	LDPE	

REMARKS: *1042 was told to stop work  
1050 was told to return to work*

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-49</b>		DATE: <b>3/12/2021</b>	
WELL DIAMETER (inches): <b>4</b>		TUBING DIAMETER (inches): <b>-</b>		WELL SCREEN INTERVAL DEPTH: <b>11</b> feet to <b>51</b> feet		DEPTH TO WATER (feet): <b>33.25</b>		PUMP TYPE OR BAILER: <b>Bailer</b>	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
    = ( **51** feet - **33.25** feet) X **0.65** gallons/foot = **11.54** gallons

PUMP DEPTH IN WELL (feet): <b>-</b>		PURGING INITIATED AT: <b>-</b>		PURGING ENDED AT: <b>-</b>		TOTAL VOLUME PURGED (gallons): <b>34.62</b>	
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
<b>1146</b>	<b>11.54</b>	<b>-</b>	<b>-</b>	<b>19.07</b>	<b>6.24</b>	<b>173</b>	<b>0.357</b>	<b>&gt;1000</b>	<b>5.23</b>	<b>orange</b>	<b>none</b>
<b>1159</b>	<b>11.54</b>	<b>-</b>	<b>-</b>	<b>18.08</b>	<b>6.12</b>	<b>91</b>	<b>0.246</b>	<b>&gt;1000</b>	<b>4.93</b>	<b>orange</b>	<b>none</b>
<b>1215</b>	<b>11.54</b>	<b>-</b>	<b>-</b>	<b>17.92</b>	<b>6.07</b>	<b>37</b>	<b>0.233</b>	<b>&gt;1000</b>	<b>4.18</b>	<b>orange</b>	<b>none</b>

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Tim Dickey / AECOM</b>			SAMPLER(S) SIGNATURE(S): <i>T. Dickey</i>			SAMPLE TIME: <b>1215</b>		
PUMP OR TUBING DEPTH IN WELL (feet): <b>-</b>			TUBING MATERIAL CODE: <b>-</b>			FIELD-FILTERED: Y (N)		FILTER SIZE: <b>-</b> μm

FIELD DECONTAMINATION: PUMP Y N **NA** TUBING Y N (replaced) **NA** DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<b>MW-49</b>	<b>4</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 4</b>	<b>6.07</b>	<b>6200</b>	<b>B</b>	<b>-</b>
<b>I</b>	<b>3</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 3</b>	<b>I</b>	<b>VPH</b>	<b>I</b>	<b>-</b>
<b>I</b>	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO3</b>	<b>250 mL</b>	<b>I</b>	<b>Lead by 6010</b>	<b>I</b>	<b>-</b>

REMARKS: **MW-49 too muddy to pump-pump became clogged w/ mud**

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; BFPP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

# GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-50		DATE: 03/12/21		
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: 13 feet to 53 feet		DEPTH TO WATER (feet): 37.05		PUMP TYPE OR BAILER: Monsoon		
<b>WELL VOLUME PURGE:</b> 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( 53 feet - 37.05 feet ) X 0.65 gallons/foot = 10.36 gallons										
PUMP DEPTH IN WELL (feet): 40			PURGING INITIATED AT: 0800			PURGING ENDED AT: 0905		TOTAL VOLUME PURGED (gallons): 3.25		

TIME	VOLUME PURGED (gallons)	PURGE RATE (gallons/min)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b> <0.3 ft. drawdown   within 3%   ±0.1 unit   ±10 mV   within 3%   within 10% or <5 NTU   within 10% or <0.5 mg/L   --   --											
0815	0.75	200	38.76	17.66	6.17	90	0.182	2.6	5.53	Clear	No
0820	1.0	200	38.99	17.77	6.16	85	0.183	2.3	5.11	Clear	NO
0825	1.25	200	39.27	17.85	6.15	82	0.184	2.4	5.30	Clear	NO
0830	1.5	200	39.41	17.98	6.15	80	0.184	1.9	4.62	Clear	NO
0835	1.75	200	39.55	18.01	6.12	80	0.184	1.8	4.18	Clear	No
0840	2.0	200	39.65	18.11	6.11	79	0.183	1.7	4.11	Clear	No
0845	2.25	200	39.74	18.11	6.10	78	0.182	1.6	4.03	Clear	No
0850	2.5	200	39.88	18.13	6.10	79	0.182	1.6	3.68	Clear	NO
0855	2.75	200	39.91	18.18	6.10	78	0.182	1.6	3.76	Clear	No
0900	3.0	200	39.93	18.22	6.09	77	0.182	1.4	3.76	Clear	No
0905	3.25	200	39.92	18.21	6.09	81	0.183	1.3	3.75	Clear	No

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott Thorson / AECOM				SAMPLER(S) SIGNATURE(S): <i>Scott Thorson</i>				SAMPLE TIME: 0910					
PUMP OR TUBING DEPTH IN WELL (feet): 40				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y <input checked="" type="checkbox"/>		FILTER SIZE: -- µm			
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N					

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	4	AG	40 mL	HCL	40 mL x 4	6.09	6200	ESP	200
	3	AG	40 mL	HCL	40 mL x 3	6.09	VPH	ESP	200
	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.09	Lead by 6010	ESP	200

REMARKS: Honda V-62 S/N: Y4JTJ7X7, Hannon HOIL S/N: 000977, Monsoon S/N: 25118

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; BFPP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-51</b>		DATE: <b>3/12/21</b>	
WELL DIAMETER (inches): <b>4</b>		TUBING DIAMETER (inches): <b>3/8</b>		WELL SCREEN INTERVAL DEPTH: <b>15</b> feet to <b>45</b> feet		DEPTH TO WATER (feet): <b>37.19</b>		PUMP TYPE OR BAILER: <b>ESP</b>	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): <b>43'</b>	PURGING INITIATED AT: <b>0755</b>	PURGING ENDED AT: <b>0905</b>	TOTAL VOLUME PURGED (gallons): <b>7.8</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
<b>0755</b>	<b>0</b>	<b>—</b>	<b>37.19</b>	<b>16.61</b>	<b>6.34</b>	<b>186</b>	<b>0.317</b>	<b>194</b>	<b>8.41</b>	<b>Clear</b>	<b>None</b>
<b>0800</b>	<b>.9</b>		<b>37.22</b>	<b>16.61</b>	<b>6.36</b>	<b>180</b>	<b>0.315</b>	<b>116</b>	<b>6.98</b>	" "	" "
<b>0805</b>	<b>1.4</b>		<b>37.23</b>	<b>16.78</b>	<b>6.35</b>	<b>178</b>	<b>0.314</b>	<b>47.6</b>	<b>6.85</b>	" "	" "
<b>0810</b>	<b>2.0</b>		<b>37.25</b>	<b>16.93</b>	<b>6.32</b>	<b>179</b>	<b>0.315</b>	<b>31.8</b>	<b>3.01</b>	" "	" "
<b>0815</b>	<b>2.7</b>		<b>37.26</b>	<b>17.12</b>	<b>6.30</b>	<b>182</b>	<b>0.314</b>	<b>20.5</b>	<b>2.22</b>	" "	" "
<b>0820</b>	<b>3.3</b>		<b>37.26</b>	<b>17.15</b>	<b>6.31</b>	<b>183</b>	<b>0.310</b>	<b>19.7</b>	<b>2.21</b>	" "	" "
<b>0825</b>	<b>3.9</b>		<b>37.28</b>	<b>17.10</b>	<b>6.33</b>	<b>183</b>	<b>0.309</b>	<b>15.2</b>	<b>2.26</b>	" "	" "
<b>0830</b>	<b>4.4</b>		<b>37.28</b>	<b>17.08</b>	<b>6.35</b>	<b>183</b>	<b>0.309</b>	<b>10.9</b>	<b>2.21</b>	" "	" "
<b>0835</b>	<b>5.0</b>		<b>37.30</b>	<b>17.01</b>	<b>6.39</b>	<b>182</b>	<b>0.308</b>	<b>5.1</b>	<b>2.24</b>	" "	" "
<b>0840</b>	<b>5.5</b>		<b>37.31</b>	<b>16.98</b>	<b>6.43</b>	<b>181</b>	<b>0.306</b>	<b>5.4</b>	<b>2.19</b>	" "	" "
<b>0845</b>	<b>5.9</b>		<b>37.31</b>	<b>16.95</b>	<b>6.46</b>	<b>180</b>	<b>0.305</b>	<b>5.0</b>	<b>2.24</b>	" "	" "
<b>0850</b>	<b>6.5</b>		<b>37.32</b>	<b>16.96</b>	<b>6.46</b>	<b>180</b>	<b>0.305</b>	<b>4.2</b>	<b>2.20</b>	" "	" "

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Tim Dickey / AECOM</b>				SAMPLER(S) SIGNATURE(S): <i>Tim Dickey</i>				SAMPLE TIME: <b>0900</b>			
PUMP OR TUBING DEPTH IN WELL (feet): <b>43</b>				TUBING MATERIAL CODE: <b>LDPE</b>				FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N) FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> (N replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<b>MW-51</b>	<b>4</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 4</b>		<b>6200</b>	<b>ESP</b>			
<b>I</b>	<b>3</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 3</b>		<b>VPH</b>	<b>I</b>			
<b>I</b>	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO<sub>3</sub></b>	<b>250 mL</b>		<b>Lead by 6010</b>	<b>I</b>			

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-52		DATE: 03/11/21	
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: 22 feet to 52 feet		DEPTH TO WATER (feet): 33.55		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 52 feet - 33.55 feet ) X 0.65 gallons/foot = 11.90 gallons

PUMP DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 1400	PURGING ENDED AT: 1500	TOTAL VOLUME PURGED (gallons): 3.0
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1410	0.5	0.2	35.38	15.33	6.25	45	0.212	3.4	0.15	Clear	No
1415	0.75	0.2	35.19	15.59	6.44	30	0.216	3.3	0.00	Clear	No
1420	1.0	0.2	34.93	15.62	6.40	15	0.223	2.3	0.00	Clear	No
1425	1.25	0.2	34.85	15.77	6.53	10	0.224	1.9	0.00	Clear	No
1430	1.5	0.2	34.73	15.83	6.53	7	0.224	1.7	0.00	Clear	No
1435	1.75	0.2	34.73	15.84	6.50	10	0.224	1.5	0.00	Clear	No
1440	2.0	0.2	34.74	15.72	6.51	6	0.224	1.4	0.00	Clear	No
1445	2.25	0.2	34.74	15.76	6.52	8	0.223	1.4	0.00	Clear	No
1450	2.50	0.2	34.73	15.74	6.48	23	0.224	1.2	0.00	Clear	No
1455	2.75	0.2	34.73	15.75	6.48	7	0.223	1.2	0.00	Clear	No
1500	3.0	0.2	34.73	15.81	6.49	7	0.223	1.2	0.00	Clear	No

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott Thorson / AECOM			SAMPLER(S) SIGNATURE(S): <i>Scott Thorson</i>			SAMPLE TIME: 1505			
PUMP OR TUBING DEPTH IN WELL (feet): 38			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N) FILTER SIZE: ___ μm			
FIELD DECONTAMINATION: PUMP (N) TUBING Y (N)(replaced)						DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	4	AG	40 mL	HCL	40 mL x 4		6200	ESP 0.2	
	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP 0.2	
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	ESP 0.2	
REMARKS:									

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-53		DATE: 3-10-2021	
WELL DIAMETER (inches): 4.0"		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: 40 feet to 60 feet		DEPTH TO WATER (feet): 24.35		PUMP TYPE OR BAILER: Monsoon Pump	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 50'	PURGING INITIATED AT: 1408	PURGING ENDED AT: 1543	TOTAL VOLUME PURGED (gallons):
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1408	-0-		24.68	17.31	6.99	181	0.267	5.6	13.44	clear	NO
1413	.50		25.02	16.47	7.03	183	0.267	5.6	3.04	clear	NO
1418	1.0		25.53	16.32	7.18	180	0.265	2.6	0.00	clear	NO
1423	1.5		25.68	16.52	7.07	180	0.264	3.0	0.00	clear	NO
1428	2.0		25.88	16.34	6.95	184	0.268	3.3	0.00	clear	NO
1433	2.5		26.36	16.56	6.78	181	0.267	0.0	0.00	clear	NO
1438	3.0		26.68	16.19	6.70	182	0.267	0.0	0.00	clear	NO
1443	3.5		27.38	16.14	6.64	185	0.267	0.0	0.00	clear	NO
1448	4.0		27.83	16.30	6.66	185	0.267	0.0	0.00	clear	NO
1453	4.5		28.02	16.45	6.65	185	0.262	0.0	0.00	clear	N
1458	5.0		28.38	16.42	6.59	187	0.261	0.0	0.00	clear	N
1503	5.5		28.42	16.55	6.62	187	0.261	0.0	0.00	clear	N
1508	6.0		28.40	16.32	6.60	193	0.266	0.0	4.68	clear	N
1513	6.5		28.95	16.27	6.56	193	0.265	0.0	3.08	clear	N
1518	7.0		29.28	16.28	6.54	194	0.263	0.0	1.98	clear	N
1523	7.5		29.49	16.30	6.53	196	0.261	0.0	0.96	clear	N
1528	8.0		29.66	16.37	6.47	196	0.261	0.0	0.22	clear	N
1533	8.5		29.73	16.30	6.44	198	0.259	0.0	0.00	clear	N
1538	9.0		29.95	16.21	6.41	200	0.263	0.0	0.00	clear	N
1543	9.5		30.13	16.31	6.43	200	0.263	0.0	0.00	clear	N

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Randy Morgan / AECOM		SAMPLER(S) SIGNATURE(S): Randy Morgan		SAMPLE TIME: 1545	
PUMP OR TUBING DEPTH IN WELL (feet): 50'		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N) FILTER SIZE: -- μm	
FIELD DECONTAMINATION: PUMP (N) TUBING Y (replaced)		DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-53	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	
MW-53	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP	
MW-53	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	ESP	

REMARKS: Pump shut off several times

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-54		DATE: 03-11-21	
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 15 feet to 60 feet		DEPTH TO WATER (feet): 24.58		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

23.12 = (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 55	PURGING INITIATED AT: 0850	PURGING ENDED AT: 1030	TOTAL VOLUME PURGED (gallons): 9.5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0855	0	0.1	24.59	14.84	6.18	284	0.161	>1000	4.13	Light brown	None
0900	0.5		24.60	14.64	6.15	302	0.158	>1000	3.41		
0905	1.0		24.61	14.83	6.14	320	0.159	998	3.32		
0910	1.5		24.63	14.76	6.16	295	0.159	>1000	3.07		
0915	2.0		24.65	15.23	6.19	299	0.156	>1000	2.65		
0920	2.5		24.67	15.30	6.22	290	0.161	>1000	3.05		
0925	3.0		24.70	15.52	6.20	307	0.156	>1000	3.01		
0930	3.5		24.73	15.72	6.16	319	0.153	>1000	2.92		
0935	4.0		24.74	15.64	6.07	332	0.152	618	2.82	Clear	
0940	4.5		24.75	15.85	6.15	331	0.152	267	2.79		
0945	5.0		24.75	15.87	6.14	333	0.149	341	2.81		
0950	5.5		24.76	15.92	6.12	335	0.150	602	2.89		
0955	6.0		24.77	15.94	6.10	336	0.151	576	2.95		
1000	6.5		24.77	15.97	6.10	336	0.150	555	3.12		
1005	7.0		24.78	16.08	6.12	328	0.149	243	2.90		
1010	7.5		24.78	16.05	6.14	328	0.149	154	2.78		
1015	8.0		24.78	16.08	6.15	333	0.148	94.6	2.73		
1020	8.5		27.81	16.07	6.16	334	0.148	59.0	2.71		
1025	9.0		27.81	16.11	6.16	337	0.148	56.6	2.67		
1030	9.5		27.82	16.11	6.16	338	0.148	54.9	2.66		

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 1030					
PUMP OR TUBING DEPTH IN WELL (feet): 55				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm					
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N)(replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-54	4	AG	40 mL	HCL	40 mL x 4	6.16	6200		ESP		0.1		
	3	AG	40 mL	HCL	40 mL x 3		VPH						
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010						

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-56		DATE: 03/09/2021	
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: 10 feet to 43.6 feet		DEPTH TO WATER (feet): 8.97		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 18	PURGING INITIATED AT: 0920	PURGING ENDED AT: 0955	TOTAL VOLUME PURGED (gallons): 5.25
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0920	0.00	0.15	9.33	12.08	5.89	304	0.217	72.6	6.00	Clear	None
0925	0.75	↓	9.55	12.69	6.01	274	0.209	25.4	5.16	↓	↓
0930	1.5		9.88	13.21	6.04	260	0.206	24.4	4.78		
0935	2.25		9.98	13.25	6.05	261	0.206	24.1	4.66		
0940	3.0		10.01	13.26	6.06	262	0.205	18.5	4.46		
0945	3.75		10.12	13.50	6.07	262	0.203	13.9	4.55		
0950	4.5		10.17	13.68	6.08	265	0.202	14.5	4.39		
0955	5.25		10.22	13.70	6.07	265	0.202	13.9	4.41		
<div style="border: 2px solid blue; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: auto;"> <span style="font-size: 2em; font-weight: bold;">AO</span> </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Andrew O'Malia / AECOM				SAMPLER(S) SIGNATURE(S): A O'M			SAMPLE TIME: 1000		
PUMP OR TUBING DEPTH IN WELL (feet): 18				TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N) FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-56	4	AG	40 mL	HCL	40 mL x 4	6.07	6200	ESP	0.15
↓	3	AG	40 mL	HCL	40 mL x 3	↓	VPH	↓	↓
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	↓	↓

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-57</b>		DATE: <b>03/09/2021</b>	
WELL DIAMETER (inches): <b>4</b>		TUBING DIAMETER (inches): <b>3/8</b>		WELL SCREEN INTERVAL DEPTH: <b>10</b> feet to <b>47.8</b> feet		DEPTH TO WATER (feet): <b>9.43</b>		PUMP TYPE OR BAILER: <b>Monsoon</b>	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): <b>16</b>	PURGING INITIATED AT: <b>1055</b>	PURGING ENDED AT: <b>1125</b>	TOTAL VOLUME PURGED (gallons): <b>4.5</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
<b>1055</b>	<b>0.00</b>	<b>0.15</b>	<b>9.68</b>	<b>14.35</b>	<b>6.18</b>	<b>258</b>	<b>0.361</b>	<b>7.8</b>	<b>4.92</b>	<b>Clear</b>	<b>None</b>
<b>1100</b>	<b>0.75</b>		<b>10.10</b>	<b>14.38</b>	<b>6.11</b>	<b>239</b>	<b>0.354</b>	<b>0.2</b>	<b>9.48</b>		
<b>1105</b>	<b>1.5</b>		<b>10.50</b>	<b>14.43</b>	<b>6.10</b>	<b>226</b>	<b>0.354</b>	<b>0.0</b>	<b>8.60</b>		
<b>1110</b>	<b>2.25</b>		<b>10.61</b>	<b>14.53</b>	<b>6.10</b>	<b>220</b>	<b>0.345</b>	<b>3.8</b>	<b>7.43</b>		
<b>1115</b>	<b>3.0</b>		<b>10.65</b>	<b>14.66</b>	<b>6.10</b>	<b>221</b>	<b>0.343</b>	<b>4.2</b>	<b>6.84</b>		
<b>1120</b>	<b>3.75</b>		<b>10.67</b>	<b>14.73</b>	<b>6.10</b>	<b>222</b>	<b>0.343</b>	<b>3.7</b>	<b>6.47</b>		
<b>1125</b>	<b>4.5</b>		<b>10.70</b>	<b>14.77</b>	<b>6.10</b>	<b>223</b>	<b>0.341</b>	<b>3.8</b>	<b>6.32</b>		
<div style="border: 2px solid blue; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: auto;"> <span style="font-size: 48px; font-weight: bold;">AO</span> </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Andrew O'Malia / AECOM</b>				SAMPLER(S) SIGNATURE(S): <b>AO</b>			SAMPLE TIME: <b>1130</b>			
PUMP OR TUBING DEPTH IN WELL (feet): <b>16</b>				TUBING MATERIAL CODE: <b>LDPE</b>		FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N) Filtration Equipment Type: --		FILTER SIZE: -- μm		
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> (replaced)		DUPLICATE: Y <input checked="" type="checkbox"/> (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
<b>MW-57</b>	<b>4</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 4</b>	<b>6.10</b>	<b>6200</b>		<b>ESP</b>	
<b>I</b>	<b>3</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 3</b>	<b>I</b>	<b>VPH</b>		<b>I</b>	
	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO<sub>3</sub></b>	<b>250 mL</b>		<b>Lead by 6010</b>		<b>I</b>	

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-57D		DATE: 3/9/2021			
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): 9.39		PUMP TYPE OR BAILER: monsoon pump			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( unknown feet - 9.39 feet) X 0.65 gallons/foot = ? gallons											
PUMP DEPTH IN WELL (feet): 96			PURGING INITIATED AT: 0950			PURGING ENDED AT: 1130			TOTAL VOLUME PURGED (gallons): 11		
TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
STABILIZATION CRITERIA:			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0950	0	0.11	9.39	15.03	7.94	231	0.288	18.4	7.67	clear	none
0955	0.55		9.90	14.49	8.72	167	0.280	18.9	6.77	clear	none
1000	1.10		10.52	14.27	9.35	124	0.281	23.7	6.10	clear	none
1005	1.65		11.57	14.57	9.37	96	0.284	87.3	5.28	clear	none
1010	2.2		13.14	14.78	8.72	83	0.285	65.4	4.51	clear	none
1015	2.75		14.27	14.77	8.42	71	0.283	39.9	3.93	clear	none
1020	3.3		14.65	14.64	8.21	64	0.283	49.0	3.51	clear	none
1025	3.85		15.75	14.56	8.01	61	0.285	89.6	3.14	clear	none
1030	4.4		16.63	14.87	8.51	45	0.289	179	2.73	clear	none
1035	5		17.25	14.82	8.15	47	0.288	143	2.50	clear	none
1040	5.5		17.70	14.80	8.23	44	0.288	176	2.24	clear	none
1045	6.05		18.42	14.73	8.54	34	0.290	220	2.04	clear	none
1050	6.6		19.15	14.80	8.62	28	0.290	225	1.80	clear	none
1055	7.15		19.64	14.91	8.57	27	0.290	224	1.61	clear	none
1100	7.7		20.07	15.16	8.52	28	0.289	208	1.45	clear	none
1105	8.25		21.09	15.22	8.70	23	0.291	250	1.27	clear	none
1110	8.8		21.75	15.15	8.39	30	0.289	207	1.15	clear	none
1115	9.35		22.38	15.28	8.46	28	0.289	209	0.99	clear	none
1120	9.9		22.87	15.22	8.31	33	0.288	180	0.90	clear	none
1125	10.45		23.24	15.33	8.35	34	0.288	195	0.81	clear	none
1130	11		23.70	15.05	8.40	34	0.289	215	0.79	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA									
SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM				SAMPLER(S) SIGNATURE(S): Emily R. Love			SAMPLE TIME: 1130		
PUMP OR TUBING DEPTH IN WELL (feet): 96				TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N)		FILTER SIZE: -- μm
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N replaced)			DUPLICATE: Y (N)		
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-57D	4	AG	40 mL	HCL	40 mL x 4	8.40	6200	ESP	0.11
	3	AG	40 mL	HCL	40 mL x 3		VPH		
	1	PE	250 mL	HNO3	250 mL		Lead by 6010		

REMARKS: couldn't get flow rate to stabilize

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident SITE LOCATION: Huntersville, NC PROJECT NUMBER: 60639876 WELL NAME: MW-58 DATE: 3/11/21

WELL DIAMETER (inches): 4 TUBING DIAMETER (inches): 3/8 WELL SCREEN INTERVAL DEPTH: 19.5 feet to 47.5 feet DEPTH TO WATER (feet): 28.45 PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

PUMP DEPTH IN WELL (feet): 47.5 PURGING INITIATED AT: 1215 PURGING ENDED AT: 1310 TOTAL VOLUME PURGED (gallons): 6.1

Table with 12 columns: TIME, VOLUME PURGED (gallons), PURGE RATE (gpm), DEPTH TO WATER (feet), TEMP. (°C), pH (standard units), ORP (mV), COND. (mS/cm), TURB. (NTU), DO (mg/L), COLOR (describe), ODOR (describe). Includes a STABILIZATION CRITERIA row and data rows from 1215 to 1255.

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tim Dickey / AECOM SAMPLER(S) SIGNATURE(S): [Signature] SAMPLE TIME: 1305

PUMP OR TUBING DEPTH IN WELL (feet): 47.5 TUBING MATERIAL CODE: FIELD-FILTERED: Y (N) FILTER SIZE: --- µm Filtration Equipment Type: --

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N replaced) DUPLICATE: Y (N)

Table with 3 main columns: SAMPLE CONTAINER SPECIFICATION, SAMPLE PRESERVATION (including wet ice), INTENDED ANALYSIS AND/OR METHOD. Includes rows for MW-58, L, and Lead by 6010.

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

GROUNDWATER SAMPLING LOG													
SITE NAME: 2020-L1-2448 Incident			SITE LOCATION: Huntersville, NC			PROJECT NUMBER: 60639876			WELL NAME: MW-59		DATE: 3/11/21		
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: 20 feet to 50 feet			DEPTH TO WATER (feet): 30.23		PUMP TYPE OR BAILER: ESP				
<b>WELL VOLUME PURGE:</b> 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)													
PUMP DEPTH IN WELL (feet): 48				PURGING INITIATED AT: 1050				PURGING ENDED AT: 1200		TOTAL VOLUME PURGED (gallons): 7.3			
TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)		
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--		
1050	0	—	30.23	15.97	6.10	150	0.118	1000	9.00	Cloudy	None		
1055	0.6		30.23	16.18	6.04	173	0.116	986	7.85	Cloudy	None		
1100	1.3		30.25	16.02	6.02	183	0.116	991	7.38	Cloudy	None		
1105	2.0		30.26	16.11	6.02	171	0.115	320	6.88	Clear	None		
1110	2.5		30.26	16.11	6.01	167	0.115	286	6.51	" "	" "		
1115	3.1		30.25	16.08	6.00	161	0.114	150	6.10	" "	" "		
1120	3.6		30.26	16.36	6.00	165	0.114	87.4	5.44	" "	" "		
1125	4.1		30.26	16.06	5.99	166	0.114	31.2	5.47	" "	" "		
1130	4.7		30.26	16.08	5.99	165	0.114	17.7	5.46	" "	" "		
1135	5.2		30.27	16.09	5.99	163	0.113	8.2	5.50	" "	" "		
1140	5.7		30.27	16.10	5.99	163	0.113	5.4	5.47	" "	" "		
1145	6.3		30.28	16.12	5.98	163	0.113	3.1	5.42	" "	" "		
<b>WELL CAPACITY (Gallons Per Foot):</b> 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88													
SAMPLING DATA													
SAMPLED BY (PRINT) / AFFILIATION: Tim DiKey / AECOM				SAMPLER(S) SIGNATURE(S): <i>Tim DiKey</i>				SAMPLE TIME: 1155					
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y <input checked="" type="radio"/>		FILTER SIZE: --- µm			
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N				TUBING Y <input checked="" type="radio"/> N (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-59	4	AG	40 mL	HCL	40 mL x 4			6200	ESP				
I	3	AG	40 mL	HCL	40 mL x 3			VPH	I				
	1	PE	250 mL	HNO <sub>3</sub>	250 mL			Lead by 6010	I				
REMARKS:													
<b>MATERIAL CODES:</b> AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)													
<b>SAMPLING EQUIPMENT CODES:</b> APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)													

**GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-59D		DATE: 3/10/2021	
WELL DIAMETER (inches): 6		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): 33.37		PUMP TYPE OR BAILER: monsoon pump	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = (unknown feet - 33.37 feet) X 1.47 gallons/foot = ? gallons

PUMP DEPTH IN WELL (feet): 155	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1115	TOTAL VOLUME PURGED (gallons): 5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1040	0	0.167	33.37	16.50	8.18	170	0.335	16.94	15.67	clear	none
1045	0.83		33.80	15.88	8.35	119	0.310	80.2	0.68	clear	none
1055	1.67		35.10	15.99	8.47	36	0.307	89.1	0.00	clear	none
1100	2.50		35.65	16.11	8.42	26	0.308	92.4	0.00	clear	none
1105	3.33		35.99	16.29	8.48	15	0.306	88.8	0.00	clear	none
1110	4.17		36.43	16.19	8.48	8	0.305	86.6	0.00	clear	none
1115	5		36.84	16.17	8.43	6	0.306	87.8	0.00	clear	none

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM			SAMPLER(S) SIGNATURE(S): Emily R. Love			SAMPLE TIME: 1115			
PUMP OR TUBING DEPTH IN WELL (feet): 155			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N) Filtration Equipment Type: --			
FIELD DECONTAMINATION: PUMP (Y) N			TUBING Y (N (replaced))			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-59D	4	AG	40 mL	HCL	40 mL x 4	8.43	6200	ESP	0.167
	3	AG	40 mL	HCL	40 mL x 3		VPH		
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010		

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene;  
 S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;  
 RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-60
DATE: 3-11-21			
WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	DEPTH TO WATER (feet): 31.96
PUMP TYPE OR BAILER:			

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 47.85 feet - 31.96 feet ) X 0.65 gallons/foot = 10.32 gallons

PUMP DEPTH IN WELL (feet): 41'	PURGING INITIATED AT: 1417	PURGING ENDED AT: 1457	TOTAL VOLUME PURGED (gallons): 3.25
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1432	1.0	0.06	32.42	21.21	6.21	266	0.173	10.88	8.18	clear	None
1437	1.35	0.07	32.52	20.03	6.12	273	0.176	9.59	8.55	clear	None
1442	1.75	0.08	32.63	19.79	6.05	278	0.178	5.84	8.29	clear	None
1447	2.25	0.10	32.68	19.62	6.07	278	0.178	5.04	8.16	clear	None
1452	2.75	0.10	32.71	19.67	6.10	278	0.178	5.50	8.05	clear	None

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AECOM	SAMPLER(S) SIGNATURE(S): <i>ALS</i>	SAMPLE TIME: 1452
PUMP OR TUBING DEPTH IN WELL (feet): 41'	TUBING MATERIAL CODE: L O P E	FIELD-FILTERED: Y (N) FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N	TUBING Y <input checked="" type="radio"/> N (replaced)	DUPLICATE: Y <input checked="" type="radio"/> N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-60	4	AG	40 mL	HCL	40 mL x 4	6.10	6200	ESP	0.10
MW-60	3	AG	40 mL	HCL	40 mL x 3	6.10	VPH	ESP	0.10
MW-60	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.10	Lead by 6010	ESP	0.10

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-61D		DATE: 3/10/2021	
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): 53.78		PUMP TYPE OR BAILER: monsoon pump	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= ( unknown feet - 53.78 feet) X 0.65 gallons/foot = ? gallons

PUMP DEPTH IN WELL (feet): 100	PURGING INITIATED AT: 1500	PURGING ENDED AT: 1545	TOTAL VOLUME PURGED (gallons): 8
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1500	0	0.178	53.78	20.90	7.38	193	0.225	9.3	23.42	clear	none
1505	0.89		53.86	19.32	6.79	224	0.224	9.9	19.59	clear	none
1510	1.78		53.85	18.16	6.46	238	0.226	19.2	19.17	clear	none
1515	2.66		53.86	17.75	6.04	233	0.232	5.4	18.45	clear	none
1520	3.55		53.87	17.69	6.04	228	0.233	0.5	18.03	clear	none
1525	4.44		53.86	17.61	5.74	238	0.233	0.9	17.48	clear	none
1530	5.33		53.86	17.59	5.64	243	0.232	0.0	17.50	clear	none
1535	6.22		53.87	17.52	6.00	222	0.231	0.0	17.66	clear	none
1540	7.10		53.86	17.56	5.94	233	0.231	0.0	17.83	clear	none
1545	8		53.86	17.60	5.92	235	0.230	0.0	17.94	clear	none

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM		SAMPLER(S) SIGNATURE(S): Emily R. Love		SAMPLE TIME: 1545	
PUMP OR TUBING DEPTH IN WELL (feet): 100		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y <input checked="" type="radio"/> Filtration Equipment Type: --	
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N			TUBING Y <input checked="" type="radio"/> (replaced)		
DUPLICATE: Y <input checked="" type="radio"/>					

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-61D	4	AG	40 mL	HCL	40 mL x 4	5.92	6200	ESP	0.178
I	3	AG	40 mL	HCL	40 mL x 3	I	VPH	I	I
I	1	PE	250 mL	HNO <sub>3</sub>	250 mL	I	Lead by 6010	I	I

REMARKS: DO appears to be incorrect

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)



## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-62D		DATE: 3/8/2021	
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): 53.60		PUMP TYPE OR BAILER: monsoon pump	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= ( unknown feet - 53.60 feet ) X 0.65 gallons/foot = ? gallons

PUMP DEPTH IN WELL (feet): 134	PURGING INITIATED AT: 1220	PURGING ENDED AT: 1305	TOTAL VOLUME PURGED (gallons): 11
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1220	0	0.24	53.60	18.03	9.15	152	0.238	55.7	2.24	clear	none
1225	1.22		54.14	17.36	8.82	150	0.216	85.4	0.66	clear	none
1230	2.44		54.55	16.86	8.81	142	0.216	176	0.22	clear	none
1235	3.66		55.09	16.82	8.77	168	0.215	166	0.12	clear	none
1240	4.88		55.46	16.85	8.77	127	0.214	131	0.00	clear	none
1245	6.10		55.81	16.86	8.78	119	0.214	90.3	0.00	clear	none
1250	7.32		56.02	16.88	8.76	114	0.214	81.4	0.00	clear	none
1255	8.54		56.24	16.89	8.74	109	0.215	70.0	0.00	clear	none
1300	9.76		56.43	16.90	8.70	106	0.217	71.4	0.00	clear	none
1305	11		56.68	16.90	8.66	101	0.220	76.5	0.00	clear	none

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM				SAMPLER(S) SIGNATURE(S): Emily R. Love			SAMPLE TIME: 1305		
PUMP OR TUBING DEPTH IN WELL (feet): 134				TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N)		FILTER SIZE: -- µm	
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N replaced)		DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-62D	4	AG	40 mL	HCL	40 mL x 4	8.66	6200	ESP	0.24
I	3	AG	40 mL	HCL	40 mL x 3	I	VPH	I	I
I	1	PE	250 mL	HNO <sub>3</sub>	250 mL	I	Lead by 6010	I	I

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: <b>MW-63</b>	DATE: <b>3/18/21</b>
WELL DIAMETER (inches): <b>4</b>	TUBING DIAMETER (inches): <b>3/8</b>	WELL SCREEN INTERVAL DEPTH: <b>28</b> feet to <b>58</b> feet	DEPTH TO WATER (feet): <b>40.65</b>	PUMP TYPE OR BAILER: <b>ESP</b>

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (                              feet -                              feet) X                              gallons/foot =                              gallons

PUMP DEPTH IN WELL (feet): <b>56'</b>	PURGING INITIATED AT: <b>0915</b>	PURGING ENDED AT: <b>1045</b>	TOTAL VOLUME PURGED (gallons): <b>10.9</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
STABILIZATION CRITERIA:			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0915	0	—	40.65	15.53	6.35	209	0.231	70.2	10.34	Clear	None
0920	0.8	—	40.69	15.61	6.30	209	0.222	69.0	10.37	Clear	None
0925	1.4	—	40.70	15.88	6.25	203	0.225	71.2	9.96	Clear	None
0930	2.0	—	40.70	16.39	6.27	193	0.221	57.4	9.76	Clear	None
0935	2.7	—	40.71	16.21	6.26	194	0.222	34.3	9.75	Clear	None
0940	3.6	—	40.72	16.33	6.26	190	0.221	29.5	9.53	Clear	None
0945	4.3	—	40.72	16.65	6.26	179	0.222	21.1	9.03	Clear	None
0950	4.9	—	40.74	16.69	6.26	182	0.221	16.7	9.00	Clear	None
0955	5.5	—	40.75	16.59	6.26	185	0.221	10.7	8.98	Clear	None
1000	6.3	—	40.75	16.58	6.26	186	0.221	7.3	8.88	Clear	None
1005	7.1	—	40.76	16.60	6.26	183	0.221	6.2	8.86	Clear	None
1010	7.7	—	40.77	16.62	6.27	181	0.220	4.9	8.66	Clear	None
1015	8.3	—	40.77	17.07	6.27	184	0.219	4.7	8.61	Clear	None
1020	9.0	—	40.79	17.03	6.26	188	0.219	4.8	8.63	Clear	None
1025	9.6	—	40.80	17.00	6.26	188	0.219	4.5	8.59	Clear	None
1030	10.2	—	40.81	16.97	6.26	188	0.219	4.7	8.57	Clear	None

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Tim Dickey / AECOM</b>	SAMPLER(S) SIGNATURE(S): 	SAMPLE TIME: <b>1040</b>
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PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    Filteration Equipment Type: --
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FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N	TUBING <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N (replaced)	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-63	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	
MW-63	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP	
MW-63	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	ESP	

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-64</b>		DATE: <b>03/08/2021</b>	
WELL DIAMETER (inches): <b>2</b>		TUBING DIAMETER (inches): <b>3/8"</b>		WELL SCREEN INTERVAL DEPTH: feet to <b>69.7</b> feet		DEPTH TO WATER (feet): <b>38.20</b>		PUMP TYPE OR BAILER: <b>Monsoon</b>	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): <b>50</b>	PURGING INITIATED AT: <b>0945</b>	PURGING ENDED AT: <b>1020</b>	TOTAL VOLUME PURGED (gallons): <b>4.0</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
<b>0945</b>	<b>0.00</b>	<b>0.1</b>	<b>38.35</b>	<b>16.32</b>	<b>6.34</b>	<b>305</b>	<b>0.188</b>	<b>71,000</b>	<b>10.91</b>	<b>Brown</b>	<b>None</b>
<b>0950</b>	<b>0.5</b>		<b>38.26</b>	<b>17.15</b>	<b>6.38</b>	<b>256</b>	<b>0.183</b>	<b>71,000</b>	<b>8.89</b>		
<b>0955</b>	<b>1.0</b>		<b>38.26</b>	<b>17.14</b>	<b>6.39</b>	<b>252</b>	<b>0.183</b>	<b>71,000</b>	<b>8.54</b>		
<b>1000</b>	<b>1.5</b>		<b>38.25</b>	<b>17.24</b>	<b>6.39</b>	<b>249</b>	<b>0.183</b>	<b>71,000</b>	<b>8.17</b>		
<b>1005</b>	<b>2.0</b>		<b>38.31</b>	<b>17.73</b>	<b>6.38</b>	<b>231</b>	<b>0.183</b>	<b>71,000</b>	<b>8.06</b>		
<b>1010</b>	<b>3.0</b>		<b>38.31</b>	<b>17.71</b>	<b>6.38</b>	<b>234</b>	<b>0.183</b>	<b>71,000</b>	<b>7.49</b>		
<b>1015</b>	<b>3.5</b>		<b>38.32</b>	<b>17.71</b>	<b>6.39</b>	<b>239</b>	<b>0.185</b>	<b>71,000</b>	<b>7.62</b>		
<b>1020</b>	<b>4.0</b>		<b>38.32</b>	<b>17.64</b>	<b>6.39</b>	<b>239</b>	<b>0.185</b>	<b>71,000</b>	<b>7.37</b>		

AG

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Andrew O'malia / AECOM</b>			SAMPLER(S) SIGNATURE(S): <i>A. O'malia</i>			SAMPLE TIME: <b>1025</b>			
PUMP OR TUBING DEPTH IN WELL (feet): <b>50</b>			TUBING MATERIAL CODE: <b>LDPE</b>			FIELD-FILTERED: Y (N) FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP (Y) N			TUBING Y (N) <b>(replaced)</b>			DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<b>MW-64</b>	<b>4</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 4</b>	<b>6.39</b>	<b>6200</b>	<b>ESP</b>	<b>0.1</b>
	<b>3</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 3</b>		<b>VPH</b>		
	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO<sub>3</sub></b>	<b>250 mL</b>		<b>Lead by 6010</b>		

REMARKS: **Unable to lower turbidity but stable @ 71,000.**

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; BFPP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-65		DATE: 3/8/2021	
WELL DIAMETER (inches): 2"		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): 22.45		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = (39.95 feet - 22.45 feet) X 0.16 gallons/foot = 2.8 gallons

PUMP DEPTH IN WELL (feet): 32'		PURGING INITIATED AT: 1104		PURGING ENDED AT: 1234		TOTAL VOLUME PURGED (gallons): 9.1	
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>											
			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1119	1.9	0.12	22.66	18.51	6.37	137	0.164	>1000	4.97	Brown	None
1129	3.0	0.11	22.67	18.73	6.38	125	0.166	>1000	4.62	Brown	None
1139	3.9	0.1	22.67	18.71	6.40	120	0.167	>1000	4.35	Brown	None
1149	4.9	0.1	22.67	18.84	6.45	121	0.167	>1000	4.08	Brown	None
1159	5.9	0.1	22.67	18.74	6.44	125	0.169	>1000	4.50	Brown	None
1209	6.9	0.1	22.67	18.69	6.43	131	0.168	815	4.30	Brown	None
1219	7.9	0.1	22.67	18.71	6.42	136	0.170	382	4.12	Brown	None
1229	8.9	0.1	22.67	18.74	6.42	138	0.172	252	4.20	Brown	None
AAZ											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AECOM			SAMPLER(S) SIGNATURE(S): <i>Adam Lee</i>			SAMPLE TIME: 1229				
PUMP OR TUBING DEPTH IN WELL (feet): 32'			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N) FILTER SIZE: -- μm				
FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)			DUPLICATE: Y (N)							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW-65	4	AG	40 mL	HCL	40 mL x 4	6.42	6200	ESP	0.1	
MW-65	3	AG	40 mL	HCL	40 mL x 3	6.42	VPH	ESP	0.1	
MW-65	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.42	Lead by 6010	ESP	0.1	
REMARKS:										

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-65D		DATE: 3/8/2021		
WELL DIAMETER (inches): 4		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): 22.33		PUMP TYPE OR BAILER: monsoon pump		

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= ( unknown feet - 22.33 feet ) X 0.65 gallons/foot = ? gallons

PUMP DEPTH IN WELL (feet): <u>120</u>	PURGING INITIATED AT: <u>0948</u>	PURGING ENDED AT: <u>1058</u>	TOTAL VOLUME PURGED (gallons): <u>13.5</u>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0948	0	0.193	22.33	15.84	7.53	35	0.319	72.0	2.77	clear	none
0953	0.96		23.03	16.52	7.57	48	0.320	76.5	2.23	clear	none
0958	1.92		23.67	16.65	7.54	50	0.320	65.8	3.45	clear	none
1003	2.88		24.41	16.63	7.54	54	0.320	46.3	3.32	clear	none
1008	3.84		25.70	16.83	7.53	52	0.319	41.1	2.56	clear	none
1013	4.8		26.89	16.87	7.53	46	0.319	39.8	2.18	clear	none
1018	5.76		27.38	16.88	7.53	49	0.319	36.4	1.92	clear	none
1023	6.72		27.76	16.91	7.52	54	0.318	36.6	1.79	clear	none
1028	7.68		28.05	16.92	7.51	60	0.318	34.2	1.67	clear	none
1033	8.64		28.26	16.95	7.50	64	0.317	29.1	1.55	clear	none
1038	9.6		28.42	16.97	7.49	68	0.316	27.8	1.38	clear	none
1043	10.56		28.58	16.99	7.44	75	0.315	27.6	1.22	clear	none
1048	11.52		28.63	17.00	7.43	80	0.313	26.3	1.17	clear	none
1053	12.48		28.75	17.03	7.39	86	0.311	26.9	1.08	clear	none
1058	13.5		28.84	17.05	7.34	89	0.308	26.0	1.07	clear	none

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Emily Love / AECOM</u>				SAMPLER(S) SIGNATURE(S): <u>Emily R. Love</u>				SAMPLE TIME: <u>1100</u>			
PUMP OR TUBING DEPTH IN WELL (feet): <u>120</u>				TUBING MATERIAL CODE: <u>LDPE</u>				FIELD-FILTERED: Y <input checked="" type="radio"/> Filtration Equipment Type: --			
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N				TUBING Y <input checked="" type="radio"/> (replaced)				DUPLICATE: Y <input checked="" type="radio"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-65D	4	AG	40 mL	HCL	40 mL x 4	7.34	6200	ESP	0.193		
	3	AG	40 mL	HCL	40 mL x 3		VPH				
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010				

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-66	DATE: 03-10-21
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WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to 56.6 feet	DEPTH TO WATER (feet): 38.58	PUMP TYPE OR BAILER: Monsoon
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**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
(only fill out if applicable)

2.84 = (                    feet -                    feet ) X                    gallons/foot =                    gallons

PUMP DEPTH IN WELL (feet): 51	PURGING INITIATED AT: 0920	PURGING ENDED AT: 1025	TOTAL VOLUME PURGED (gallons): 9
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	+10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0925	0	0.15	38.58	16.99	6.11	387	0.190	71000	6.32	Light brown	None
0930	0.75		38.58	17.66	6.15	397	0.179	>1000	6.50		
0935	1.5		38.59	19.14	6.30	313	0.173	>1000	6.22		
0940	2.25		38.60	19.05	6.31	340	0.174	71000	6.15		
0945	3.0		38.62	18.90	6.32	356	0.175	>1000	6.10		
0950	3.75		38.63	18.86	6.30	361	0.177	897	5.97		
0955	4.5		38.63	18.81	6.29	376	0.179	661	5.58		
1000	5.25		38.64	19.08	6.37	370	0.179	413	5.39	Clear	
1005	6.0		38.65	19.09	6.36	375	0.180	305	5.32		
1010	6.75		38.68	19.22	6.38	366	0.180	297	5.28		
1015	7.5		38.69	19.22	6.36	367	0.181	247	5.31		
1020	8.25		38.71	19.27	6.38	366	0.181	205	5.31		
1025	9.0		38.73	19.25	6.36	368	0.181	147	5.06		

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM	SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>	SAMPLE TIME: 1030
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PUMP OR TUBING DEPTH IN WELL (feet): 51	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type: --	FILTER SIZE: -- μm
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FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N)(replaced)	DUPLICATE: Y (N)
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-66	4	AG	40 mL	HCL	40 mL x 4	6.36	6200	ESP	0.15
	3	AG	40 mL	HCL	40 mL x 3		VPH		
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010		

REMARKS:  
Parameters not stabilized, 3 well volumes purged

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-67		DATE: 03-09-21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: ? feet to 45.4 feet		DEPTH TO WATER (feet): 31.20		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)

2.32 = (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 40	PURGING INITIATED AT: 1400	PURGING ENDED AT: 1520	TOTAL VOLUME PURGED (gallons): 4.5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	+10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1405	0	0.06	31.21	18.98	6.89	146	0.308	>1000	1.15	Light brown	None
1410	0.3		31.21	18.97	6.71	159	0.307	>1000	1.45		
1415	0.6		31.21	18.96	6.66	176	0.304	>1000	1.96		
1420	0.9		31.22	18.98	6.50	277	0.289	446	2.53		
1425	1.2		31.22	18.91	6.36	304	0.282	168	3.05		
1430	1.5		31.23	18.86	6.26	332	0.275	95.4	3.20		
1435	1.8		31.24	18.89	6.40	347	0.275	84.7	3.52		
1440	2.1		31.24	19.75	6.39	350	0.271	50.7	3.76		
1445	2.4		31.24	19.42	6.39	343	0.266	30.6	4.04		
1450	2.7		31.24	19.23	6.38	354	0.263	25.6	4.26		
1455	3.0		31.25	19.14	6.37	354	0.264	24.5	3.96		
1500	3.3		31.25	19.11	6.34	354	0.264	20.7	4.21		
1505	3.6		31.26	18.87	6.32	355	0.265	18.2	4.69		
1510	3.9		31.26	18.79	6.32	356	0.266	16.2	4.71		
1515	4.2		31.26	18.76	6.31	358	0.264	15.9	4.74		
1520	4.5		31.26	18.74	6.31	359	0.264	15.6	4.75		

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 1520		
PUMP OR TUBING DEPTH IN WELL (feet): 40				TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N) Filtration Equipment Type: --		FILTER SIZE: -- μm	
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N) (replaced)				DUPLICATE: Y (N)		
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW-67	4	AG	40 mL	HCL	40 mL x 4	6.31	6200	ESP	0.06	
↓	3	AG	40 mL	HCL	40 mL x 3	↓	VPH	↓	↓	
↓	1	PE	250 mL	HNO <sub>3</sub>	250 mL	↓	Lead by 6010	↓	↓	

REMARKS:  
Parameters not stabilized, 3 well volume reached

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-68	DATE: 03.09.21
WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ? feet to 52.9 feet	DEPTH TO WATER (feet): 38.40	PUMP TYPE OR BAILER: Monsoon

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 7.22 = ( 52 - 38.40 ) feet X 0.75 gallons/foot = 10.0 gallons

PUMP DEPTH IN WELL (feet): 52	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1155	TOTAL VOLUME PURGED (gallons): 7.0
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
STABILIZATION CRITERIA:			<0.3 ft. drawdown	within 3%	+0.1 unit	+10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1045	0	0.1	38.41	17.89	6.21	233	0.201	>1000	6.87	Light brown	None
1050	0.5		38.43	18.32	6.22	237	0.209	>1000	6.95		
1055	1.0		38.44	18.71	6.24	241	0.213	>1000	7.06		
1100	1.5		38.47	19.10	6.25	245	0.217	>1000	7.16		
1105	2.0		38.49	19.12	6.22	246	0.218	>1000	7.06		
1110	2.5		38.50	19.06	6.19	248	0.219	>1000	6.98		
1115	3.0		38.51	18.92	6.18	249	0.220	>1000	6.95		
1120	3.5		38.53	18.96	6.17	255	0.223	967	6.98		
1125	4.0		38.56	19.00	6.18	262	0.227	861	7.05		
1130	4.5		38.58	19.13	6.18	271	0.229	739	7.11		
1135	5.0		38.61	19.07	6.18	286	0.232	601	6.90		
1140	5.5		38.63	18.76	6.18	295	0.240	376	6.97		
1145	6.0		38.66	18.61	6.19	325	0.247	325	7.01		
1150	6.5		38.70	18.49	6.19	347	0.251	291	7.05		
1155	7.0		38.72	18.44	6.19	353	0.251	267	7.10		

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Lei Tian / AECOM</i>				SAMPLER(S) SIGNATURE(S): 			SAMPLE TIME: 1200		
PUMP OR TUBING DEPTH IN WELL (feet): 52			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y <input checked="" type="radio"/> Filtration Equipment Type: --		FILTER SIZE: -- µm	
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N				TUBING Y <input checked="" type="radio"/> (replaced)			DUPLICATE: Y <input checked="" type="radio"/> N		
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	6200	ESP	0.1
MW-68	4	AG	40 mL	HCL	40 mL x 4	6.19			
↓	3	AG	40 mL	HCL	40 mL x 3	↓			
↓	1	PE	250 mL	HNO <sub>3</sub>	250 mL	↓	Lead by 6010	↓	↓

REMARKS:  
*Parameters not stabilized, 3 well volume reached*

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-69</b>		DATE: <b>3/11/2021</b>	
WELL DIAMETER (inches): <b>4.0</b>		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: feet to <b>56.95</b> feet		DEPTH TO WATER (feet): <b>50.19</b>		PUMP TYPE OR BAILER: <b>Monsoon</b>	

**WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**  
 (only fill out if applicable)  
 = (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): <b>55'</b>	PURGING INITIATED AT: <b>0835</b>	PURGING ENDED AT: <b>1015</b>	TOTAL VOLUME PURGED (gallons):
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0835	-0-		50.48	16.30	7.63	245	0.190	>1000	3.90	Brown	N
0840	.50		50.58	16.57	7.65	255	0.191	>1000	3.43	Brown	N
0845	1.0		50.62	16.96	7.65	268	0.191	>1000	2.84	Brown	N
0850	1.5		50.70	17.22	7.61	277	0.192	>1000	2.48	Brown	N
0855	2.0		50.77	17.38	7.54	284	0.193	>1000	2.10	Brown	N
0900	2.5		50.79	17.54	7.57	283	0.195	>1000	1.74	Brown	N
0905	3.0		50.80	17.45	7.54	277	0.199	>1000	1.33	Brown	N
0910	3.5		50.81	17.53	7.55	274	0.200	>1000	1.09	Brown	N
0915	4.0		50.82	17.56	7.50	270	0.201	620	0.89	Brown	N
0920	4.5		50.82	17.62	7.46	269	0.202	530	0.68	Lt Brn	N
0925	5.0		50.83	17.65	7.46	266	0.202	427	0.56	Lt Brn	N
0930	5.5		50.83	17.73	7.53	264	0.202	345	0.49	Lt Brn	N
0935	6.0		50.83	17.79	7.55	261	0.202	308	0.49	Lt Brn	N
0945	6.5		50.83	17.84	7.54	260	0.201	256	0.56	Lt Brn	N
0950	7.0		50.83	17.87	7.49	260	0.199	238	0.62	Lt Brn	N
0955	7.5		50.83	17.87	7.46	263	0.199	209	0.65	Lt Brn	N
1000	8.0		50.83	17.91	7.43	265	0.199	177	0.69	Lt Brn	N
1005	8.5		50.83	18.04	7.46	261	0.199	151	0.75	Lt Brn	N
1010	9.0		50.83	18.07	7.49	261	0.198	158	0.78	Lt Brn	N
1015	9.5		50.83	18.09	7.49	265	0.198	163	0.79	Lt Brn	N

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Randy Morgan / AECOM</i>		SAMPLER(S) SIGNATURE(S): <i>Randy Morgan</i>		SAMPLE TIME: <b>1018</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>55'</b>		TUBING MATERIAL CODE: <b>LDPE</b>		FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N) FILTER SIZE: ___ μm	
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N		TUBING Y <input checked="" type="checkbox"/> (replaced)		DUPLICATE: Y <input checked="" type="checkbox"/> (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-69	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	
MW-69	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP	
MW-69	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	ESP	

REMARKS: *Well is not completed, 4.0 prc stick up ~ 6" high. No well tag*

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-70		DATE: 3/8/2021	
WELL DIAMETER (inches): 2"		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet):		PUMP TYPE OR BAILER: Monsor	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 47.93 feet - 35.79 feet ) X 0.16 gallons/foot = 1.94 gallons

PUMP DEPTH IN WELL (feet): 42'	PURGING INITIATED AT: 0925	PURGING ENDED AT: 0958	TOTAL VOLUME PURGED (gallons): 11
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0935	3.0	0.3	37.83	17.44	6.66	207	0.253	>1000	3.81	Brown	None
0945	7.0	0.4	38.02	17.55	6.64	200	0.246	>1000	3.86	Brown	None
0955	10.0	0.3	37.85	17.59	6.64	195	0.244	659	4.00	Brown	None
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg); pointer-events: none;">                     HHL                 </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AECOM			SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLE TIME: 0955				
PUMP OR TUBING DEPTH IN WELL (feet): 42'			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N) FILTER SIZE: -- µm				
FIELD DECONTAMINATION: PUMP (Y) N			TUBING Y (N (replaced))			DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	4	AG	40 mL	HCL	40 mL x 4	6.64	6200	ESP	0.3	
	3	AG	40 mL	HCL	40 mL x 3	6.64	VPH	ESP	0.3	
	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.64	Lead by 6010		0.3	

REMARKS: Monsoon pump lowest flow was 0.3 gpm. Acquired check valve for next well

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW 71		DATE: 3-11-2021	
WELL DIAMETER (inches): 2.0		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: feet to 62.40 feet		DEPTH TO WATER (feet): 55.32		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 62.00	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1230	TOTAL VOLUME PURGED (gallons):
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1100	0		55.81	17.05	7.42	276	0.170	888	3.13	Brn	N
1105	0.5		55.66	16.98	7.41	275	0.171	780	2.80	Brn	N
1110	1.0		55.64	17.30	7.45	272	0.173	716	2.73	Brn	N
1115	1.5		55.71	17.93	7.49	270	0.174	698	2.62	Brn	N
1120	2.0		55.72	18.35	7.52	267	0.174	622	2.42	Brn	N
1125	2.5		55.74	18.44	7.55	266	0.174	495	2.18	Brn	N
1130	3.0		55.74	18.53	7.56	264	0.175	354	1.87	Brn	N
1135	3.5		55.74	18.58	7.61	263	0.177	205	1.30	Brn	N
1140	4.0		55.74	18.69	7.65	262	0.177	169	1.06	Lt Brn	N
1145	4.5		55.74	18.74	7.68	261	0.177	110	0.87	Lt Brn	N
1150	5.0		55.74	18.74	7.72	261	0.177	80.0	0.63	Lt Brn	N
1155	5.5		55.74	18.82	7.75	260	0.177	67.2	0.52	- m	N
1200	6.0		55.74	19.08	7.82	254	0.176	41.4	0.51	Clear	N
1205	6.5		55.74	19.19	7.76	255	0.176	33.5	0.56	clear	N
1210	7.0		55.74	19.25	7.72	255	0.175	30.0	0.58	clear	N
1215	7.5		55.74	19.29	7.67	254	0.175	23.4	0.68	clear	N
1220	8.0		55.74	19.39	7.64	253	0.175	18.6	0.70	clear	N
1225	8.5		55.74	19.56	7.62	250	0.174	17.3	0.78	clear	N
1230	9.0		55.74	19.70	7.59	249	0.174	17.6	0.84	clear	N

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Randy Morgan / AECOM</i>		SAMPLER(S) SIGNATURE(S): <i>Randy Morgan</i>		SAMPLE TIME: 1233	
PUMP OR TUBING DEPTH IN WELL (feet): 62.00		TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) FILTER SIZE: -- μm	
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N		TUBING Y <input checked="" type="checkbox"/> (replaced)		DUPLICATE: Y <input checked="" type="checkbox"/> N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-71	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	
MW-71	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP	
MW-71	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	ESP	

REMARKS: No well tag, tag bottom for depth

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-72	DATE: 3/10/21
WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: ? feet to 57 feet	DEPTH TO WATER (feet): 45.46	PUMP TYPE OR BAILER: ESP

**WELL VOLUME PURGE: 1 WELL VOLUME** = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (                          feet -                          feet) X                          gallons/foot =                          gallons

PUMP DEPTH IN WELL (feet): 55	PURGING INITIATED AT: 1410	PURGING ENDED AT: 1540	TOTAL VOLUME PURGED (gallons): 10.6
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
STABILIZATION CRITERIA:											
			<0.3 ft. drawdown	within 3%	+0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1410	0	—	45.46	18.11	6.47	167	0.276	1000+	10.15	Brown Sandy	None
1415	1		45.50	17.85	6.37	184	0.273	1000+	8.57	" "	None
1420	1.9		45.52	17.94	6.35	186	0.274	1000+	8.44	" "	None
1425	2.7		45.54	17.65	6.36	186	0.270	997	8.05	Cloudy Sandy	None
1430	3.2		45.55	17.69	6.34	188	0.272	991	7.85	" "	None
1435	3.8		45.55	17.90	6.39	187	0.279	998	7.88	" "	None
1440	4.4		45.56	17.88	6.37	188	0.277	997	7.62	" "	" "
1445	5.0		45.56	18.11	6.35	191	0.274	992	7.47	" "	" "
1450	5.5		45.56	18.19	6.34	195	0.276	995	7.33	" "	" "
1455	6.1		45.57	18.31	6.34	196	0.277	997	7.27	" "	" "
1500	6.7		45.57	18.39	6.33	196	0.276	997	7.23	" "	" "
1505	7.1		45.57	18.52	6.34	196	0.273	1000+	7.07	" "	" "
1510	7.6		45.58	18.72	6.34	197	0.272	995	6.97	" "	" "
1515	8.1		45.59	18.77	6.33	199	0.271	998	6.90	" "	" "
1520	8.6		45.59	18.78	6.32	201	0.270	994	6.88	" "	" "
1525	9.2		45.59	18.75	6.32	201	0.270	996	6.81	" "	" "
1530	9.7		45.61	18.71	6.32	201	0.271	995	6.78	" "	" "

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tim Dickey / AECOM			SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLE TIME: 1535			
PUMP OR TUBING DEPTH IN WELL (feet):			TUBING MATERIAL CODE:			FIELD-FILTERED: Y <input checked="" type="radio"/> Filtration Equipment Type: --			
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N			TUBING <input checked="" type="radio"/> Y <input type="radio"/> N (replaced)			DUPLICATE: Y <input checked="" type="radio"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-72	4	AG	40 mL	HCL	40 mL x 4		6200	ESP	
I	3	AG	40 mL	HCL	40 mL x 3		VPH	ESP	
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010	ESP	
REMARKS: Water is very sandy. No tag on the well.									

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-73</b>		DATE: <b>3-11-2021</b>	
WELL DIAMETER (inches): <b>2"</b>		TUBING DIAMETER (inches): <b>3/8"</b>		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): <b>31.77</b>		PUMP TYPE OR BAILER: <b>Monsoon</b>	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( **46'** (stoc) feet - **31.77** feet ) X **0.16** gallons/foot = \_\_\_\_\_ gallons

PUMP DEPTH IN WELL (feet): <b>39'</b>	PURGING INITIATED AT: <b>1520</b>	PURGING ENDED AT: <b>1600</b>	TOTAL VOLUME PURGED (gallons): <b>4.5</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1535	2.0	0.13	33.28	19.40	7.51	-45	0.224	>1000	5.52	Milky Brown	None
1540	2.5	0.10	33.43	19.37	7.24	-9	0.226	>1000	4.75	Milky Brown	None
1545	3.0	0.10	33.54	19.14	7.14	17	0.224	>1000	4.05	Milky Brown	None
1550	3.5	0.10	33.62	19.25	7.15	25	0.220	>1000	3.96	Milky Brown	None
1555	4.0	0.10	33.63	19.17	7.10	23	0.217	>1000	3.89	Milky Brown	None
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg); pointer-events: none;">                     AOC                 </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Adam Lee AECOM</b>		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLE TIME: <b>1555</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>39'</b>		TUBING MATERIAL CODE: <b>LDPE</b>		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> FILTER SIZE: ___ µm	
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/>		TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>		DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-73	4	AG	40 mL	HCL	40 mL x 4	7.16	6200	ESP	0.10
MW-73	3	AG	40 mL	HCL	40 mL x 3	7.16	VPH	ESP	0.10
MW-73	1	PE	250 mL	HNO <sub>3</sub>	250 mL	7.10	Lead by 6010	ESP	0.16

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-74		DATE: 3/8/2021	
WELL DIAMETER (inches): 2"		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet):		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 31.82 feet - 20.25 feet ) X 0.16 gallons/foot = 1.85 gallons

PUMP DEPTH IN WELL (feet): 25'		PURGING INITIATED AT: 1435		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):	
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1450	2.0	0.13	20.77	19.85	6.73	162	0.257	903	2.13	Milky Brown	None
1500	3.25	0.125	20.83	19.81	6.68	150	0.250	544	1.96	Milky Brown	None
1510	4.5	0.125	20.83	19.82	6.64	141	0.261	283	1.97	Milky Brown	None
1520	5.75	0.125	20.83	19.72	6.61	135	0.260	160	2.10	Milky Brown	None
1530	7.0	0.125	20.83	19.70	6.60	134	0.258	65.7	2.05	Milky Brown	None

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AECOM		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLE TIME: 1530	
PUMP OR TUBING DEPTH IN WELL (feet): 25'		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N) FILTER SIZE: -- µm	

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)	DUPLICATE: Y N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-74	4	AG	40 mL	HCL	40 mL x 4	6.60	6200	ESP	0.125
MW-74	3	AG	40 mL	HCL	40 mL x 3	6.60	VPH	ESP	0.125
MW-74	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.60	Lead by 6010	ESP	0.125

REMARKS: Reached three well volumes, Turbidity still dropping. Sampled per sampling site cold natural.

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: <b>MW-75</b>		DATE: <b>03/08/2021</b>	
WELL DIAMETER (inches): <b>2</b>		TUBING DIAMETER (inches): <b>3/8</b>		WELL SCREEN INTERVAL DEPTH: feet to <b>46.1</b> feet		DEPTH TO WATER (feet): <b>37.95</b>		PUMP TYPE OR BAILER: <b>Monsoon</b>	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

= (                      feet -                      feet ) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): <b>43</b>	PURGING INITIATED AT: <b>1110</b>	PURGING ENDED AT: <b>1220</b>	TOTAL VOLUME PURGED (gallons): <b>7.0</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1110	0.00	0.1	38.59	20.48	6.55	21	0.244	71,000	3.63	grey-brown	None
1115	0.5		38.89	19.99	6.52	39	0.247	71,000	7.06	brown	
1120	1.0		38.99	20.21	6.51	73	0.249	71,000	6.59		
1125	1.5		39.08	20.31	6.50	90	0.247	71,000	6.25		
1130	2.0		39.44	20.39	6.48	110	0.239	71,000	5.81		
1135	2.5		39.32	20.28	6.48	119	0.239	71,000	5.51		
1140	3.0		40.57	20.38	6.47	114	0.237	71,000	5.22		
1145	3.5		39.70	20.32	6.46	122	0.233	71,000	4.77		
1150	4.0		39.79	20.33	6.46	39	0.231	71,000	4.55		
1155	4.5		39.86	20.34	6.44	53	0.228	71,000	4.19		
1200	5.0		39.85	20.39	6.42	89	0.226	71,000	3.98		
1205	5.5		39.94	20.39	6.41	112	0.223	71,000	3.79		
1210	6.0		40.03	20.36	6.41	124	0.222	71,000	3.70		
1215	6.5		40.12	20.40	6.40	127	0.221	71,000	3.67		
1220	7.0		40.15	20.39	6.40	129	0.220	71,000	3.54		

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**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Andrew O'Malia / AECOM</b>				SAMPLER(S) SIGNATURE(S): <i>A. O. M.</i>				SAMPLE TIME: <b>1225</b>			
PUMP OR TUBING DEPTH IN WELL (feet): <b>43</b>				TUBING MATERIAL CODE: <b>LDPE</b>				FIELD-FILTERED: Y (N) FILTER SIZE: ___ μm			
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<b>MW-75</b>	4	AG	40 mL	HCL	40 mL x 4	<b>6.40</b>	6200		<b>ESP</b>	<b>0.1</b>	
<b>┃</b>	3	AG	40 mL	HCL	40 mL x 3	<b>┃</b>	VPH		<b>┃</b>	<b>┃</b>	
	1	PE	250 mL	HNO <sub>3</sub>	250 mL	<b>┃</b>	Lead by 6010		<b>┃</b>	<b>┃</b>	

REMARKS: **Unable to get turbidity below 10 ntrubut stable @ 71,000**

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: <b>MW-76</b>	DATE: <b>3-12-2021</b>
WELL DIAMETER (inches): <b>2"</b>	TUBING DIAMETER (inches): <b>3/8"</b>	WELL SCREEN INTERVAL DEPTH: <b>48</b> feet to <b>?</b> feet	DEPTH TO WATER (feet): <b>28.86</b>	PUMP TYPE OR BAILER: <b>Monsoon</b>

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( **48** feet - **28.86** feet ) X **0.16** gallons/foot = **3.06** gallons

PUMP DEPTH IN WELL (feet): <b>39'</b>	PURGING INITIATED AT: <b>0826</b>	PURGING ENDED AT: <b>0906</b>	TOTAL VOLUME PURGED (gallons): <b>4.5</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
<b>0841</b>	<b>2.0</b>	<b>0.13</b>	<b>29.13</b>	<b>15.85</b>	<b>5.90</b>	<b>185</b>	<b>0.131</b>	<b>&gt;1000</b>	<b>6.60</b>	<b>Milky Brown</b>	<b>None</b>
<b>0846</b>	<b>2.5</b>	<b>0.10</b>	<b>29.13</b>	<b>15.74</b>	<b>6.05</b>	<b>177</b>	<b>0.182</b>	<b>&gt;1000</b>	<b>6.43</b>	<b>Milky Brown</b>	<b>None</b>
<b>0851</b>	<b>3.0</b>	<b>0.10</b>	<b>29.13</b>	<b>16.04</b>	<b>6.05</b>	<b>178</b>	<b>0.182</b>	<b>&gt;1000</b>	<b>6.43</b>	<b>Milky Brown</b>	<b>None</b>
<b>0856</b>	<b>3.5</b>	<b>0.10</b>	<b>29.13</b>	<b>16.25</b>	<b>6.08</b>	<b>172</b>	<b>0.183</b>	<b>&gt;1000</b>	<b>6.43</b>	<b>Milky Brown</b>	<b>None</b>

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Adam Lee AECOM</b>	SAMPLER(S) SIGNATURE(S): 	SAMPLE TIME: <b>0856</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>39'</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/> FILTER SIZE: ___ µm Filtration Equipment Type: --
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N <input type="radio"/>	TUBING Y <input type="radio"/> N (replaced) <input checked="" type="radio"/>	DUPLICATE: <input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/>

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<b>MW-76</b>	<b>4</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 4</b>	<b>6.08</b>	<b>6200</b>	<b>ESP</b>	<b>0.10</b>
<b>MW-76</b>	<b>3</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 3</b>	<b>6.08</b>	<b>VPH</b>	<b>ESP</b>	<b>0.10</b>
<b>MW-76</b>	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO<sub>3</sub></b>	<b>250 mL</b>	<b>6.08</b>	<b>Lead by 6010</b>	<b>ESP</b>	<b>0.10</b>

REMARKS: **Collected DUP-01-20210312**

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-77		DATE: 03/08/2021	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: feet to 45 feet		DEPTH TO WATER (feet): 28.80		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 45 feet - 28.8 feet ) X 0.163 gallons/foot = 2.63 gallons

PUMP DEPTH IN WELL (feet): 35.00		PURGING INITIATED AT: 1430		PURGING ENDED AT: 1530		TOTAL VOLUME PURGED (gallons): 13.0	
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	+10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1430	1.0	0.2	29.21	19.79	6.24	128	0.137	71,000	4.89	Brown	None
1435	2.0		29.31	19.72	6.13	148	0.134	71,000	4.91		
1440	3.0		29.28	18.76	6.14	155	0.133	71,000	4.44		
1445	4.0		29.21	19.67	6.17	163	0.130	71,000	4.57		
1450	5.0		29.20	20.76	6.18	142	0.127	71,000	4.59		
1455	6.0		29.18	20.89	6.18	166	0.125	927	4.55		
1500	7.0		29.18	20.23	6.17	167	0.131	71,000	5.23		
1505	8.0		29.19	18.66	6.16	162	0.130	866	5.38		
1510	9.0		29.17	18.40	6.19	152	0.130	652	7.23		
1515	10.0		29.17	18.34	6.15	149	0.131	352	7.43	C.B	
1520	11.0		29.19	18.44	6.15	156	0.129	304	7.45		
1525	12.0		29.16	18.39	6.14	154	0.128	312	7.43		
1530	13.0		29.17	18.32	6.14	159	0.128	322	7.41		

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**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Andrew O'Malia / AECOM		SAMPLER(S) SIGNATURE(S): <i>A. O.</i>		SAMPLE TIME: 1535	
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PUMP OR TUBING DEPTH IN WELL (feet):		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N) FILTER SIZE: -- µm	
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FIELD DECONTAMINATION: PUMP (Y) N		TUBING Y (N replaced)		DUPLICATE: Y (N)	
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-77	4	AG	40 mL	HCL	40 mL x 4	6.14	6200	ESP	0.2
	3	AG	40 mL	HCL	40 mL x 3		VPH		
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010		

REMARKS: DUP collected, sampling paused @ 1505 to clear silt from HORIPA. Turbidity not < 10 NTU, but stable. C.B = Cloudy Brown

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-78		DATE: 03-08-21	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: ? feet to 50 feet		DEPTH TO WATER (feet): 33.00		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)

2.77 = (                      feet -                      feet) X                      gallons/foot =                      gallons

PUMP DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 1500	PURGING ENDED AT: 1610	TOTAL VOLUME PURGED (gallons): 6.5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1505	0	0.1	33.12	18.30	6.48	356	0.120	>1000	5.70	Light brown	None
1510	0.5		33.17	18.33	6.43	357	0.114	>1000	6.23		
1515	1.0		33.20	18.37	6.41	359	0.110	696	7.32		
1520	1.5		33.22	18.39	6.41	360	0.111	817	6.18		
1525	2.0		33.25	18.42	6.41	362	0.113	962	5.97		
1530	2.5		33.28	18.44	6.41	363	0.117	>1000	5.63		
1535	3.0		33.31	18.48	6.40	347	0.116	491	5.97		
1540	3.5		33.35	18.52	6.40	336	0.114	262	6.15	None	
1545	4.0		33.39	18.58	6.39	337	0.114	207	6.07		
1550	4.5		33.42	18.65	6.38	338	0.113	120	6.00		
1555	5.0		33.44	18.55	6.38	335	0.112	96.2	6.30		
1600	5.5		33.48	18.50	6.37	339	0.111	99.7	6.25		
1605	6.0		33.51	18.49	6.37	340	0.111	101.9	6.25		
1610	6.5		33.54	18.47	6.37	342	0.110	92.8	6.23		
(A diagonal line is drawn across the remaining empty rows of the table.)											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>Lei Tian</i>				SAMPLE TIME: 1610					
PUMP OR TUBING DEPTH IN WELL (feet): 45				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y (N) FILTER SIZE: -- μm					
FIELD DECONTAMINATION: PUMP (Y) N				TUBING Y (N)(replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (gal per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-78	4	AG	40 mL	HCL	40 mL x 4	6.37	6200		ESP		0.1		
	3	AG	40 mL	HCL	40 mL x 3		VPH						
	1	PE	250 mL	HNO <sub>3</sub>	250 mL		Lead by 6010						

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-79		DATE: 3-9-2021	
WELL DIAMETER (inches): 2"		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 38 feet to 28 feet		DEPTH TO WATER (feet): 27.62		PUMP TYPE OR BAILER: Monsoon	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 38 feet - 27.62 feet ) X 0.16 gallons/foot = 1.66 gallons

PUMP DEPTH IN WELL (feet): 32'	PURGING INITIATED AT: 1020	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1035	1.1	0.	27.89	18.76	6.27	215	0.141	21000	5.39	Milky Brown	None
1045	2.1	0.10	27.91	18.86	6.30	218	0.144	21000	5.09	Milky White	None
1055	3.1	0.10	27.92	18.87	6.33	215	0.148	692	4.96	Milky White	None
1105	4.1	0.10	27.92	18.89	6.34	210	0.149	138	4.90	Cloudy	None
1115	5.1	0.10	27.92	18.90	6.33	211	0.147	36.3	5.00	clear	None
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg); pointer-events: none;">                     AVAL                 </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam A. Lee AECOM		SAMPLER(S) SIGNATURE(S): <i>Adam A. Lee</i>		SAMPLE TIME: 1115	
PUMP OR TUBING DEPTH IN WELL (feet): 32'		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N) Filtration Equipment Type: --	
FIELD DECONTAMINATION: PUMP (Y) N		TUBING Y (N (replaced))		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-79	4	AG	40 mL	HCL	40 mL x 4	6.33	6200	ESP	0.16
MW-79	3	AG	40 mL	HCL	40 mL x 3	6.33	VPH	ESP	0.10
MW-79	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.33	Lead by 6010	ESP	0.10

REMARKS: Sampled after 3 well volumes purged. Turbidity above 10 NTU.

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-79D		DATE: 3/11/2021	
WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/8		WELL SCREEN INTERVAL DEPTH: feet to feet		DEPTH TO WATER (feet): 44.32		PUMP TYPE OR BAILER: monsoon pump	

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 148 feet - 44.32 feet ) X 0.163 gallons/foot = 16.90 gallons

PUMP DEPTH IN WELL (feet): 145	PURGING INITIATED AT: 1225	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 12
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1225	0	0.133	44.32	18.19	9.67	90	0.232	59.8	0.75	clear	none
1230	0.67		51.08	18.25	9.37	-178	0.226	122	0.00	clear	none
1235	1.33		51.87	18.24	9.32	-185	0.225	120	0.02	clear	none
1240	2		51.92	18.51	9.25	-191	0.224	105	0.00	clear	none
1245	2.67		52.61	18.32	9.08	-185	0.229	64.4	0.00	clear	none
1250	3.33		53.54	18.26	8.86	-168	0.236	27.3	0.00	clear	none
1255	4		54.14	18.28	8.88	-173	0.237	23.1	0.00	clear	none
1300	4.67		54.43	18.34	8.83	-169	0.238	15.8	0.00	clear	none
1305	5.33		54.80	18.31	8.77	-163	0.241	8.6	0.00	clear	none
1310	6		54.90	18.31	8.84	-170	0.240	41.7	0.00	clear	none
1315	6.67		55.05	18.32	8.85	-179	0.242	69.8	0.00	clear	none
1320	7.33		54.95	18.47	8.80	-183	0.243	66.7	0.00	clear	none
1325	8		55.12	18.39	8.81	-185	0.242	76.8	0.00	clear	none
1330	8.67		55.05	18.41	8.81	-186	0.242	97.1	0.00	clear	none
1335	9.33		55.02	18.49	8.78	-184	0.243	131	0.00	clear	none
1340	10		55.25	18.51	8.79	-182	0.243	178	0.00	clear	none
1345	10.67		55.45	18.45	8.82	-184	0.244	234	0.00	milky	none
1350	11.33		55.50	18.47	8.84	-188	0.245	358	0.00	milky	none
1355	12		55.59	18.42	8.84	-186	0.247	485	0.00	milky	none

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM		SAMPLER(S) SIGNATURE(S): Emily R. Love		SAMPLE TIME: 1355	
PUMP OR TUBING DEPTH IN WELL (feet): 145		TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y (N) FILTER SIZE: -- μm	
FIELD DECONTAMINATION: PUMP (Y) N		TUBING Y (N (replaced))		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-79D	4	AG	40 mL	HCL	40 mL x 4	8.84	6200	ESP	0.133
I	3	AG	40 mL	HCL	40 mL x 3	I	VPH	I	I
I	1	PE	250 mL	HNO <sub>3</sub>	250 mL	I	Lead by 6010	I	I

REMARKS: sampled due to increase in turbidity

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: <b>MW-80</b>	DATE: <b>3-9-2021</b>
WELL DIAMETER (inches): <b>2"</b>	TUBING DIAMETER (inches): <b>3/8"</b>	WELL SCREEN INTERVAL DEPTH: <b>37.50</b> feet to <b>25.50</b> feet	DEPTH TO WATER (feet): <b>28.76</b>	PUMP TYPE OR BAILER: <b>Monsoon</b>

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( **37.50** feet - **28.76** feet ) X **0.16** gallons/foot = **1.39** gallons

PUMP DEPTH IN WELL (feet): **32'**      PURGING INITIATED AT: **0830**      PURGING ENDED AT: **0940**      TOTAL VOLUME PURGED (gallons): **5.25**

TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
<b>0845</b>	<b>0.75</b>	<b>0.05</b>	<b>29.18</b>	<b>16.16</b>	<b>6.32</b>	<b>217</b>	<b>0.308</b>	<b>445</b>	<b>7.82</b>	<b>Milky Brown</b>	<b>none</b>
<b>0855</b>	<b>1.25</b>	<b>0.05</b>	<b>29.19</b>	<b>16.87</b>	<b>6.29</b>	<b>208</b>	<b>0.305</b>	<b>415</b>	<b>6.99</b>	<b>Light Brown</b>	<b>none</b>
<b>0905</b>	<b>2.0</b>	<b>0.075</b>	<b>29.48</b>	<b>17.96</b>	<b>6.23</b>	<b>197</b>	<b>0.308</b>	<b>124</b>	<b>6.30</b>	<b>Light Brown</b>	<b>none</b>
<b>0915</b>	<b>3.0</b>	<b>0.10</b>	<b>29.66</b>	<b>17.71</b>	<b>6.21</b>	<b>201</b>	<b>0.310</b>	<b>26.0</b>	<b>5.92</b>	<b>Clear</b>	<b>none</b>
<b>0925</b>	<b>4.0</b>	<b>0.10</b>	<b>29.72</b>	<b>17.79</b>	<b>6.20</b>	<b>206</b>	<b>0.312</b>	<b>0.0</b>	<b>5.71</b>	<b>clear</b>	<b>none</b>
<b>0935</b>	<b>5.0</b>	<b>0.10</b>	<b>29.75</b>	<b>17.80</b>	<b>6.20</b>	<b>209</b>	<b>0.315</b>	<b>0.0</b>	<b>5.60</b>	<b>clear</b>	<b>none</b>
<b>NAAC</b>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Alex Lee AECOM</b>			SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLE TIME: <b>0935</b>				
PUMP OR TUBING DEPTH IN WELL (feet): <b>32'</b>			TUBING MATERIAL CODE: <b>LDPE</b>			FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N)      FILTER SIZE: <b>---</b> μm				
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N			TUBING Y <input checked="" type="checkbox"/> (N replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
<b>MW-80</b>	<b>4</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 4</b>	<b>6.20</b>	<b>6200</b>		<b>ESP</b>	<b>0.10</b>
<b>MW-90</b>	<b>3</b>	<b>AG</b>	<b>40 mL</b>	<b>HCL</b>	<b>40 mL x 3</b>	<b>6.20</b>	<b>VPH</b>		<b>ESP</b>	<b>0.10</b>
<b>MW-90</b>	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO<sub>3</sub></b>	<b>250 mL</b>	<b>6.20</b>	<b>Lead by 6010</b>		<b>ESP</b>	<b>0.10</b>
REMARKS:										

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-81
DATE: 3-11-2021			
WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 36.74 feet to 26.74 feet	DEPTH TO WATER (feet): 30.26
PUMP TYPE OR BAILER: Monsoon			

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 36.74 feet - 30.26 feet ) X 0.16 gallons/foot = 1.03 gallons

PUMP DEPTH IN WELL (feet): 34'	PURGING INITIATED AT: 0935	PURGING ENDED AT: 1015	TOTAL VOLUME PURGED (gallons): 4.5
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	+0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0950	1.0	0.06	30.46	18.18	7.27	137	0.431	—	0.00	Milky Brown	None
0955	1.25	0.2	30.71	19.23	7.31	121	0.424	—	0.22	Milky Brown	None
1000	2.0	0.15	30.90	18.40	7.33	105	0.419	—	0.43	Milky Brown	None
1005	3.25	0.25	30.95	18.37	7.31	100	0.411	—	0.41	Milky Brown	None
1010	4.0	0.15	31.00	18.44	7.30	98	0.411	—	0.43	Milky Brown	None
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg); position: absolute; top: 50%; left: 50%;">                     IAC                 </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AECOM	SAMPLER(S) SIGNATURE(S): <i>Adam Lee</i>	SAMPLE TIME: 1010
PUMP OR TUBING DEPTH IN WELL (feet): 34'	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) FILTER SIZE: ___ µm Filtration Equipment Type: --
FIELD DECONTAMINATION: PUMP (N) TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-81	4	AG	40 mL	HCL	40 mL x 4	7.30	6200	ESP	0.15
MW-81	3	AG	40 mL	HCL	40 mL x 3	7.30	VPH	ESP	0.15
MW-81	1	PE	250 mL	HNO <sub>3</sub>	250 mL	7.30	Lead by 6010	ESP	0.15

REMARKS: Turbidity meter on Horiba malfunction.

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC		PROJECT NUMBER: 60639876		WELL NAME: MW-82		DATE: 3-11-21		
WELL DIAMETER (inches): 2"		TUBING DIAMETER (inches): 3/8"		WELL SCREEN INTERVAL DEPTH: 38.91 feet to 28.91 feet		DEPTH TO WATER (feet): 32.28		PUMP TYPE OR BAILER: Monsoon		
<b>WELL VOLUME PURGE:</b> 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( 38.91 feet - 32.28 feet ) X 0.16 gallons/foot = 1.06 gallons										
PUMP DEPTH IN WELL (feet): 35'		PURGING INITIATED AT: 0835			PURGING ENDED AT: 0910			TOTAL VOLUME PURGED (gallons): 5.00		

TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
0850	2.0	0.13	32.94	17.10	6.01	121	0.130	0.0	6.69	clear	none
0855	3.5	0.10	32.94	17.32	6.05	132	0.125	0.0	6.89	clear	none
0900	4.0	0.10	32.94	17.46	6.10	135	0.136	0.0	7.00	clear	none
0905	4.5	0.10	32.94	17.45	6.10	139	0.135	0.0	6.97	clear	none
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg); pointer-events: none;">NAC</div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Adam Lee AECOM			SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLE TIME: 0905			
PUMP OR TUBING DEPTH IN WELL (feet): 35'			TUBING MATERIAL CODE: LDPE			FIELD-FILTERED: Y (N) FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP (N)			TUBING Y (N replaced)			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-82	4	AG	40 mL	HCL	40 mL x 4	6.10	6200	ESP	0.16
MW-82	3	AG	40 mL	HCL	40 mL x 3	6.10	VPH	ESP	0.16
MW-82	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.10	Lead by 6010	ESP	0.10

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: MW-83
DATE: 3-11-2021	WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 44 feet to ? feet
DEPTH TO WATER (feet): 30.57	PUMP TYPE OR BAILER: Monsoon		

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 44 feet - 30.57 feet ) X 0.65 gallons/foot = 8.72 gallons

PUMP DEPTH IN WELL (feet): 39'	PURGING INITIATED AT: 1245	PURGING ENDED AT: 1320	TOTAL VOLUME PURGED (gallons): 3.75
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1300	1.75	0.11	31.04	20.55	6.54	237	0.162	>1000	7.34	Milky Brown	None
1305	2.25	0.10	31.15	20.52	6.49	235	0.175	>1000	6.70	Milky Brown	None
1310	2.75	0.10	31.20	20.57	6.46	235	0.171	>1000	6.45	Milky Brown	None
1315	3.25	0.10	31.20	20.70	6.45	239	0.172	>1000	6.41	Milky Brown	None
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-15deg); pointer-events: none;">                     HALL                 </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>ALAN AECOM</i>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLE TIME: 1315
PUMP OR TUBING DEPTH IN WELL (feet): 39'	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) FILTER SIZE: -- μm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N replaced)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-83	4	AG	40 mL	HCL	40 mL x 4	6.45	6200	ESP	0.10
MW-83	3	AG	40 mL	HCL	40 mL x 3	6.45	VPH	ESP	0.10
MW-83	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.45	Lead by 6010	ESP	0.10

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

## GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	PROJECT NUMBER: 60639876	WELL NAME: <b>MW-84</b>
DATE: <b>3-11-21</b>		WELL DIAMETER (inches): <b>4"</b>	TUBING DIAMETER (inches): <b>3/8"</b>
WELL SCREEN INTERVAL DEPTH: <b>35.39</b> feet to <b>25.39</b> feet		DEPTH TO WATER (feet): <b>29.58</b>	PUMP TYPE OR BAILER: <b>Monsoon</b>

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( **35.39** feet - **29.58** feet ) X **0.65** gallons/foot = **3.77** gallons

PUMP DEPTH IN WELL (feet): <b>33'</b>	PURGING INITIATED AT: <b>1130</b>	PURGING ENDED AT: <b>1215</b>	TOTAL VOLUME PURGED (gallons): <b>5.25</b>
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TIME	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	pH (standard units)	ORP (mV)	COND. (mS/cm)	TURB. (NTU)	DO (mg/L)	COLOR (describe)	ODOR (describe)
<b>STABILIZATION CRITERIA:</b>			<0.3 ft. drawdown	within 3%	±0.1 unit	±10 mV	within 3%	within 10% or <5 NTU	within 10% or <0.5 mg/L	--	--
1145	2.0	0.13	30.07	17.71	6.21	233	0.128	49.59	7.31	clear	none
1150	3.0	0.25	30.25	19.46	6.22	238	0.120	18.77	7.79	clear	none
1155	3.25	0.05	30.07	19.91	6.20	244	0.119	30.56	7.58	clear	none
1200	3.75	0.10	30.07	19.98	6.17	250	0.118	22.84	6.81	clear	none
1205	4.25	0.10	30.07	20.07	6.16	251	0.117	18.06	6.80	clear	none
1210	4.75	0.10	30.07	19.99	6.14	257	0.115	20.00	6.82	clear	none
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg); pointer-events: none;">                         N/A                     </div>											

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Adam Lee AECOM</b>	SAMPLER(S) SIGNATURE(S): 	SAMPLE TIME: <b>1210</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>33'</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/> FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> N <input type="radio"/>	TUBING Y <input type="radio"/> N (replaced) <input checked="" type="radio"/>	DUPLICATE: Y <input type="radio"/> N <input checked="" type="radio"/>

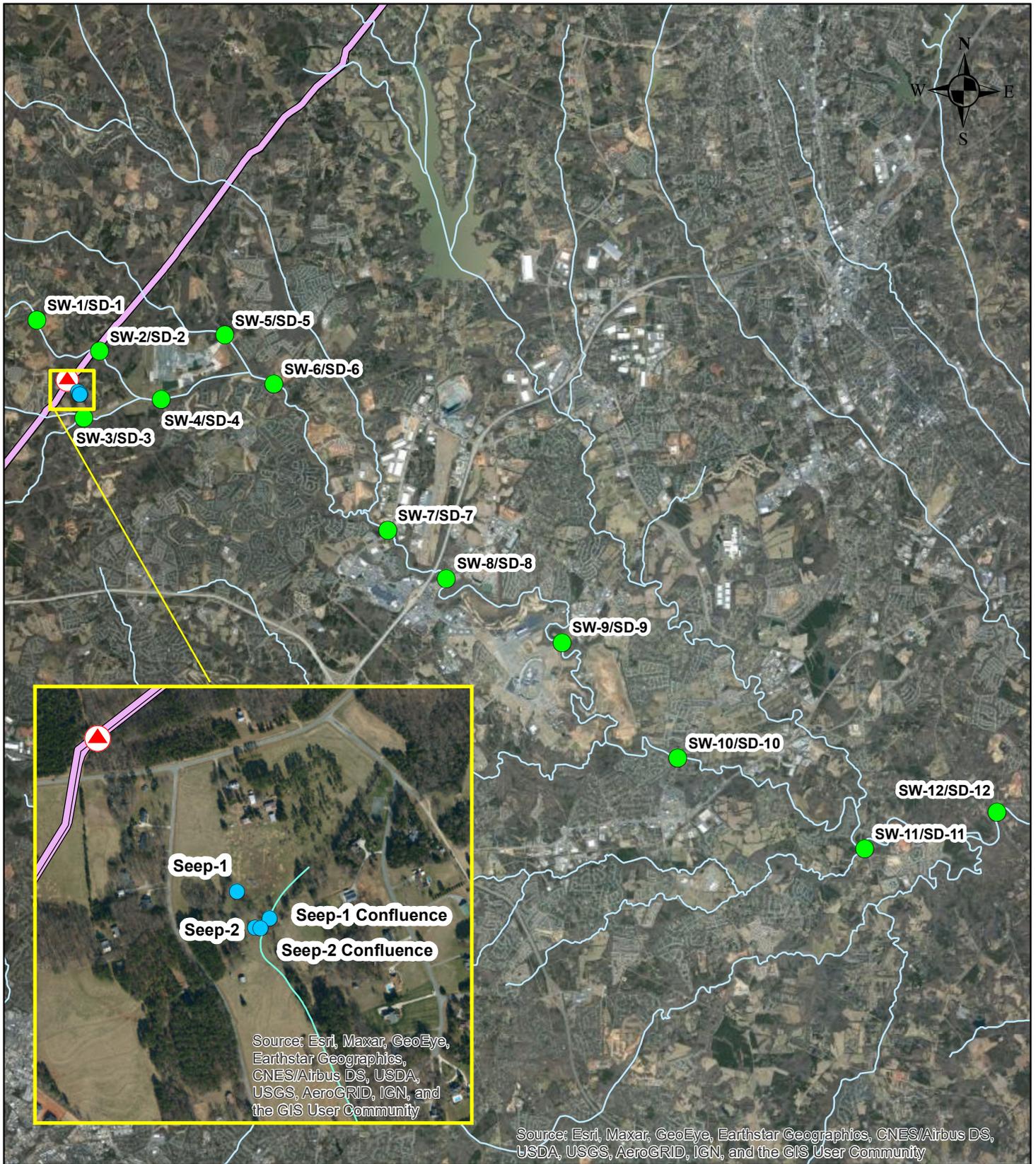
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-84	4	AG	40 mL	HCL	40 mL x 4	6.14	6200	ESP	0.10
MW-84	3	AG	40 mL	HCL	40 mL x 3	6.14	VPH	ESP	0.10
MW-84	1	PE	250 mL	HNO <sub>3</sub>	250 mL	6.14	Lead by 6010	ESP	0.10

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**APPENDIX D**  
**SURFACE WATER SAMPLING INFORMATION**



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

## Surface Water/Sediment Sampling Locations

### Legend

- SW/SD Sampling Location
- SW Sampling Location
- USA Detailed Streams
- Colonial Pipeline
- ▲ Approximate Leak Site

2020-L1-SR2448 Incident  
Huntersville, NC

**Table 1. Surface Water Sampling Results  
2020-L1-SR2448 Incident**

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
	EPA MCL			5	1,000	700	10,000	10,000	10,000	
	EPA Region 4 ESV (acute)			700	560	550	240	240	240	
	15A North Carolina Administrative Code subchapter 02B			51	11	97	420	600	670	
SW-1	North Prong Clark Creek (Up-gradient of the leak site)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
11/13/2020	<80	<1	<1	<1	<2	<1	<1	x		
11/19/2020	<80	<1	<1	<1	<2	<1	<1			
12/1/2020	<80	<1	<1	<1	<2	<1	<1	x		
12/17/2020	<80	<1	<1	<1	<2	<1	<1	x		
12/30/2020	<80	<1	<1	<1	<2	<1	<1			
1/14/2021	<80	<1	<1	<1	<2	<1	<1			
1/27/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/12/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/26/2021	<80	<1	<1	<1	<2	<1	<1			
3/10/2021	<80	<1	<1	<1	<2	<1	<1			
SW-2	North Prong Clark Creek (Downgradient of leak site)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
11/13/2020	<80	<1	<1	<1	<2	<1	<1	x		
11/19/2020	<80	<1	<1	<1	<2	<1	<1			
12/1/2020	<80	<1	<1	<1	<2	<1	<1	x		
12/17/2020	<80	<1	<1	<1	<2	<1	<1	x		
12/30/2020	<80	<1	<1	<1	<2	<1	<1			
1/14/2021	<80	<1	<1	<1	<2	<1	<1			
1/27/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/12/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/26/2021	<80	<1	<1	<1	<2	<1	<1			
3/10/2021	<80	<1	<1	<1	<2	<1	<1			

**Table 1. Surface Water Sampling Results  
2020-L1-SR2448 Incident**

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
	EPA MCL			5	1,000	700	10,000	10,000	10,000	
	EPA Region 4 ESV (acute)			700	560	550	240	240	240	
	15A North Carolina Administrative Code subchapter 02B			51	11	97	420	600	670	
SW-3	South Prong Clark Creek (Downgradient of the leak site)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
		11/13/2020	<80	<1	<1	<1	<2	<1	<1	x
		11/19/2020	<80	<1	<1	<1	<2	<1	<1	
		12/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/17/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
1/14/2021	<80	<1	<1	<1	<2	<1	<1			
1/27/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/12/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/26/2021	<80	<1	<1	<1	<2	<1	<1			
3/10/2021	<80	<1	<1	<1	<2	<1	<1			
SW-4	Clarke Creek (Downgradient of North/South Prong Clark Creek confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
		11/13/2020	<80	<1	<1	<1	<2	<1	<1	x
		11/19/2020	<80	<1	<1	<1	<2	<1	<1	
		12/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/17/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
1/14/2021	<80	<1	<1	<1	<2	<1	<1			
1/27/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/12/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/26/2021	<80	<1	<1	<1	<2	<1	<1			
3/10/2021	<80	<1	<1	<1	<2	<1	<1			

**Table 1. Surface Water Sampling Results  
2020-L1-SR2448 Incident**

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
	EPA MCL			5	1,000	700	10,000	10,000	10,000	
	EPA Region 4 ESV (acute)			700	560	550	240	240	240	
	15A North Carolina Administrative Code subchapter 02B			51	11	97	420	600	670	
SW-5	Ramah Creek (Upgradient of SW-6)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
		11/13/2020	<80	<1	<1	<1	<2	<1	<1	x
		11/19/2020	<80	<1	<1	<1	<2	<1	<1	
		12/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/17/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
1/14/2021	<80	<1	<1	<1	<2	<1	<1			
1/27/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/12/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/26/2021	<80	<1	<1	<1	<2	<1	<1			
3/10/2021	<80	<1	<1	<1	<2	<1	<1			
SW-6	Clarke Creek (Downgradient of Ramah Creek confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
		11/13/2020	<80	<1	<1	<1	<2	<1	<1	x
		11/19/2020	<80	<1	<1	<1	<2	<1	<1	
		12/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/17/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
1/14/2021	<80	<1	<1	<1	<2	<1	<1			
1/27/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/12/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/26/2021	<80	<1	<1	<1	<2	<1	<1			
3/10/2021	<80	<1	<1	<1	<2	<1	<1			

**Table 1. Surface Water Sampling Results  
2020-L1-SR2448 Incident**

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
	EPA MCL			5	1,000	700	10,000	10,000	10,000	
	EPA Region 4 ESV (acute)			700	560	550	240	240	240	
	15A North Carolina Administrative Code subchapter 02B			51	11	97	420	600	670	
SW-7	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
10/22/2020	<80	<1	<1	<1	<2	<1	<1			
10/31/2020	<80	<1	<1	<1	<2	<1	<1			
11/5/2020	<80	<1	<1	<1	<2	<1	<1			
11/13/2020	<80	<1	<1	<1	<2	<1	<1	x		
11/19/2020	<80	<1	<1	<1	<2	<1	<1			
12/1/2020	<80	<1	<1	<1	<2	<1	<1	x		
12/17/2020	<80	<1	<1	<1	<2	<1	<1	x		
12/30/2020	<80	<1	<1	<1	<2	<1	<1			
1/14/2021	<80	<1	<1	<1	<2	<1	<1			
1/27/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/12/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/26/2021	<80	<1	<1	<1	<2	<1	<1			
3/10/2021	<80	<1	<1	<1	<2	<1	<1			
SW-8	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
8/22/2020	<80	<1	<1	<1	<2	<1	<1			
SW-9	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
8/21/2020	<80	<1	<1	<1	<2	<1	<1			
8/22/2020	<80	<1	<1	<1	<2	<1	<1			
SW-10	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
8/21/2020	<80	<1	<1	<1	<2	<1	<1			
8/22/2020	<80	<1	<1	<1	<2	<1	<1			
SW-11	Rocky River (Downgradient of Mallard Creek)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
8/21/2020	<80	<1	<1	<1	<2	<1	<1			
8/22/2020	<80	<1	<1	<1	<2	<1	<1			

**Table 1. Surface Water Sampling Results  
2020-L1-SR2448 Incident**

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
	EPA MCL			5	1,000	700	10,000	10,000	10,000	
	EPA Region 4 ESV (acute)			700	560	550	240	240	240	
	15A North Carolina Administrative Code subchapter 02B			51	11	97	420	600	670	
SW-12	Rocky River (Downgradient of Back Creek)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
SW-Seep	Downgradient of Site	9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
		11/13/2020	<80	<1	<1	<1	<2	<1	<1	x
		11/19/2020	<80	<1	<1	<1	<2	<1	<1	
		12/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/17/2020	<80	<1	<1	<1	<2	<1	<1	x
12/30/2020	<80	<1	<1	<1	<2	<1	<1			
1/14/2021	<80	<1	<1	<1	<2	<1	<1			
1/27/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/12/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/26/2021	<80	<1	<1	<1	<2	<1	<1			
3/10/2021	<80	<1	<1	<1	<2	<1	<1			
SW-Confluence	Downgradient of Site	9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
		11/13/2020	<80	<1	<1	<1	<2	<1	<1	x
		11/19/2020	<80	<1	<1	<1	<2	<1	<1	
		12/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/17/2020	<80	<1	<1	<1	<2	<1	<1	x
12/30/2020	<80	<1	<1	<1	<2	<1	<1			
1/14/2021	<80	<1	<1	<1	<2	<1	<1			
1/27/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/12/2021	<80	<1	<1	<1	<2	<1	<1	x		
2/26/2021	<80	<1	<1	<1	<2	<1	<1			
3/10/2021	<80	<1	<1	<1	<2	<1	<1			
SW-Seep 2	Downgradient of SW-Seep Location	3/10/2021	<80	<1	<1	<1	<2	<1	<1	
SW-Confluence 2	Downgradient of SW-Confluence Location	3/10/2021	<80	<1	<1	<1	<2	<1	<1	

x	Sample collected, results pending
	Rainfall event (Rain > 1"/24h)

**Table 2. Surface Water General Parameter Measurements  
2020-L1-SR2448 Incident**

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)	Rain Event
SW-1	North Prong Clark Creek (Up-gradient of the leak site)	8/15/2020	26.66	7.58	57	0.146	4.75	10.1	
		8/16/2020	26.74	7.47	106	0.133	7.01	9.6	
		8/17/2020	25.78	7.47	101	0.137	4.88	2.9	
		8/18/2020	23.71	7.52	39	0.168	5.77	15.00	
		8/19/2020	26.20	7.45	126	0.13	3.92	5.7	
		8/20/2020	24.58	7.52	150	0.135	3.31	13	
		8/21/2020	23.23	7.51	166	0.114	2.92	46.6	
		8/22/2020	25.05	7.27	121	0.123	4.34	9.5	
		8/27/2020	27.40	7.47	186	0.147	3.89	1.3	
		9/1/2020	28.48	7.65	175	0.135	3.7	11.9	x
		9/2/2020	31.39	8.09	152	0.115	4.95	22.4	x
		9/3/2020	29.03	7.55	176	0.123	4.71	6.5	x
		9/10/2020	25.84	7.3	190	0.127	2.97	17.9	
		9/17/2020	25.13	7.55	194	0.096	6.76	14.8	
		9/19/2020	23.10	7.31	184	0.104	5.44	11.2	x
		9/24/2020	20.04	7.06	162	0.084	2.8	0	
		9/26/2020	20.60	6.77	170	0.075	7.49	0	x
		10/1/2020	19.57	7.16	168	0.094	2.53	20.1	
		10/7/2020	18.23	6.18	297	0.195	5.94	0	
		10/12/2020	21.52	6.61	223	0.072	4.98	177	x
		10/22/2020	19.07	6.77	215	0.09	2.44	7.3	
		10/31/2020	15.83	7.41	218	0.088	8.67	77.6	
		11/5/2020	17.29	7	174	0.063	5.78	45.6	
		11/13/2020	19.09	6.67	260	0.029	11.36	208	x
		11/19/2020	10.99	6.57	186	0.077	7.95	72.2	
		12/1/2020	11.60	6.98	90.2	0.13	9.21	32	x
		12/17/2020	9.30	7	146	0.126	10.07	28.2	x
		12/30/2020	7.00	6.69	95.9	0.138	81.2	22.9	
		1/14/2021	10.10	7.18	153.2	0.153	16.32	13.1	
		1/27/2021	11.80	7.31	151.7	0.153	14.8	17.3	x
2/12/2021	6.90	7	187.3	0.131	12	27.2	x		
2/26/2021	10.50	6.54	234.2	0.161	9.04	39.8			
3/10/2021	17.20	7.38	177	0.145	14.49	22.8			
SW-2	North Prong Clark Creek (Downgradient of leak site)	8/15/2020	24.78	7.68	94	0.142	6.99	90.9	
		8/16/2020	23.59	7.73	110	0.109	7.90	247	
		8/17/2020	23.05	7.72	106	0.099	7.11	324	
		8/18/2020	21.95	7.67	101	0.117	7.75	271	
		8/19/2020	23.05	7.73	128	0.131	6.94	51	
		8/20/2020	22.26	7.74	112	0.117	6.12	55.7	
		8/21/2020	21.87	7.61	128	0.143	3.72	31.8	
		8/22/2020	22.61	7.81	117	0.145	6.73	27.1	
		8/27/2020	24.76	7.77	170	0.149	5.94	15.8	
		9/1/2020	26.13	7.63	165	0.112	4.81	173	x
		9/2/2020	28.20	7.12	0.84	0.089	4.49	321	x
		9/3/2020	26.52	7.41	185	0.095	6.36	226	x
		9/10/2020	24.36	7.8	170	0.137	5.04	386	
		9/17/2020	21.58	7.31	195	0.057	5.63	970	
		9/19/2020	20.44	7.42	180	0.095	5.61	88.1	x
		9/24/2020	17.64	6.97	158	0.089	5	0	
		9/26/2020	19.27	6.44	185	0.066	4.11	206	x
		10/1/2020	18.08	7.2	149	0.102	9.6	230	
		10/7/2020	16.76	6.51	275	0.177	7.06	0	
		10/12/2020	20.80	6.68	244	0.063	6.43	444	x
		10/22/2020	16.60	ORWQM	219	0.1	3.82	361	
		10/31/2020	13.76	7.33	223	0.093	7.15	156	
		11/5/2020	16.51	6.91	174	0.074	5.77	152	
		11/13/2020	18.21	6.55	----	0.028	6.43	332	x
		11/19/2020	8.80	6.2	196	0.069	4.05	218	
		12/1/2020	10.20	6.77	91.1	0.126	9.37	68.4	x
		12/17/2020	9.30	6.96	147	0.12	20.65	59.1	x
		12/30/2020	6.80	6.74	113.5	0.155	11.21	17	
		1/14/2021	9.50	7.45	153.5	0.161	13.81	13.8	
		1/27/2021	11.70	7.21	156.3	0.13	12.73	85.4	x
2/12/2021	6.70	7.04	185.1	0.119	17.05	61.8	x		
2/26/2021	10.50	6.79	239.6	0.14	9.89	36.5			
3/10/2021	17.50	7.85	153.5	0.161	13.23	12.59			

Note:

(1) Last update: 03/17/2021

Red Text: Malfunction in equipment or misrecorded value

ORWQM: Outside the Range of the Water Quality Meter (over 1000 NTU)

**Table 2. Surface Water General Parameter Measurements  
2020-L1-SR2448 Incident**

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)	Rain Event
SW-3	South Prong Clark Creek (Downgradient of the leak site)	8/15/2020	25.04	7.65	109	0.113	7.17	224	
		8/16/2020	22.52	7.54	123	0.099	7.67	250	
		8/17/2020	22.66	7.64	125	0.131	7.76	248	
		8/18/2020	20.10	7.68	111	0.151	7.65	198	
		8/19/2020	22.98	7.66	147	0.166	6.02	27.3	
		8/20/2020	21.92	7.8	99	0.176	5.37	20.9	
		8/21/2020	21.40	7.64	128	0.16	3.79	94.2	
		8/22/2020	22.26	7.88	113	0.154	6.66	35.5	
		8/27/2020	24.99	7.83	162	0.187	6	8.2	
		9/1/2020	25.34	7.61	162	0.105	5.81	141	x
		9/2/2020	27.13	7.12	176	0.071	4.52	238	x
		9/3/2020	25.18	7.38	158	0.100	5.4	98.5	x
		9/10/2020	24.46	7.67	177	0.18	6.11	30.9	
		9/17/2020	21.41	7.29	190	0.087	6.67	ORWQM	
		9/19/2020	19.90	7.41	177	0.107	5.95	50.1	x
		9/24/2020	16.97	7.14	149	0.126	12.27	0	
		9/26/2020	18.52	6.4	195	0.066	9.22	187	x
		10/1/2020	17.16	7.32	144	0.125	3.33	244	
		10/7/2020	15.77	6.68	272	0.23	9.85	0	
		10/12/2020	21.09	6.57	252	0.068	6.17	420	x
		10/22/2020	16.54	6.69	199	0.158	5.84	3.5	
		10/31/2020	12.55	7.47	200	0.107	9.87	164	
		11/5/2020	16.33	6.99	143	0.095	5.99	50.6	
		11/13/2020	17.53	6.79	226	0.03	6.27	429	x
		11/19/2020	8.58	6.65	151	0.121	7.61	62	
		12/1/2020	11.00	6.95	154.6	0.145	10.57	52.8	x
		12/17/2020	9.00	6.87	231.4	0.153	11.46	54.8	x
		12/30/2020	6.90	6.92	52.1	0.176	10.69	14.8	
		1/14/2021	10.00	7.34	144.1	0.18	12.69	12.9	
		1/27/2021	11.60	7.27	186.7	0.127	16.64	89.3	x
2/12/2021	6.60	7.1	175.4	0.112	13.41	60	x		
2/26/2021	10.10	6.9	234.6	0.163	11.11	21.7			
3/10/2021	17.80	7.35	140.5	12.28	0.191	12.01			
SW-4	Clarke Creek (Downgradient of North/South Prong Clark Creek confluence)	8/15/2020	25.06	7.7	108	0.124	8.00	168	
		8/16/2020	22.85	7.62	96	0.099	7.32	299	
		8/17/2020	23.03	7.55	87	0.127	8.00	125	
		8/18/2020	20.96	7.60	106	0.129	7.07	96.7	
		8/19/2020	23.79	7.63	145	0.147	6.66	29.3	
		8/20/2020	22.41	7.77	90	0.155	4.98	22.5	
		8/21/2020	21.74	7.69	114	0.163	6.17	40.2	
		8/22/2020	22.20	7.9	102	0.14	7.59	42	
		8/27/2020	25.56	7.71	187	0.172	6.01	7.6	
		9/1/2020	25.61	7.43	138	0.116	5.73	58	x
		9/2/2020	27.75	6.75	187	0.078	4.97	278	x
		9/3/2020	25.69	6.86	165	0.103	4.16	131	x
		9/10/2020	24.07	7.44	173	0.153	6.45	23.9	
		9/17/2020	21.04	7.2	183	0.127	5.82	886	
		9/19/2020	20.06	7.23	156	0.103	7.04	71.7	x
		9/24/2020	17.01	6.51	174	0.108	8.9	0	
		9/26/2020	18.63	6.12	187	0.067	9.09	215	x
		10/1/2020	16.78	6.64	180	0.116	7.32	41	
		10/7/2020	21.92	7.01	195	0.203	4.92	0	
		10/12/2020	21.05	6.28	269	0.067	6.08	432	x
		10/22/2020	16.12	6.16	240	0.13	8.86	69.2	
		10/31/2020	12.21	7.35	184	0.098	4.04	168	
		11/5/2020	18.22	6.82	170	0.085	7	54.1	
		11/13/2020	17.44	6.57	245	0.028	9.01	442	x
		11/19/2020	8.61	6.08	191	0.106	7.61	113	
		12/1/2020	11.00	6.97	167.9	0.182	8.32	68	x
		12/17/2020	9.20	6.88	262.4	0.127	14.08	55.3	x
		12/30/2020	6.90	7.01	115.5	0.167	11.01	16.1	
		1/14/2021	10.00	7.55	151.1	0.174	11.48	14.04	
		1/27/2021	10.60	7.27	195.1	0.131	11.48	86.3	x
2/12/2021	5.90	7.14	186.7	0.115	13.3	58.1	x		
2/26/2021	9.70	7.07	269.1	0.155	11.26	27.1			
3/10/2021	17.40	7.56	178.2	0.182	11.74	10.97			

Note:

(1) Last update: 03/17/2021

Red Text: Malfunction in equipment or misrecorded value

ORWQM: Outside the Range of the Water Quality Meter (over 1000 NTU)

**Table 2. Surface Water General Parameter Measurements  
2020-L1-SR2448 Incident**

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)	Rain Event
SW-5	Ramah Creek (Upgradient of SW-6)	8/15/2020	25.44	7.49	51	0.156	6.92	14.3	
		8/16/2020	23.57	7.59	55	0.123	8.70	16.6	
		8/17/2020	22.57	7.42	62	0.144	5.81	24.3	
		8/18/2020	20.28	7.54	37	0.142	7.87	0.00	
		8/19/2020	23.98	7.75	136	0.151	6.72	51.1	
		8/20/2020	22.06	7.77	86	0.151	6.04	0	
		8/21/2020	21.73	7.74	109	0.149	5.3	39.1	
		8/22/2020	22.29	7.77	73	0.137	7.38	21.6	
		8/27/2020	26.12	7.59	177	0.159	5.29	8.9	
		9/1/2020	25.13	7.29	120	0.108	5.47	858	x
		9/2/2020	27.51	6.59	151	0.073	4.48	233	x
		9/3/2020	24.87	5.99	213	0.100	4.02	217	x
		9/10/2020	23.80	7.4	173	0.15	5.96	10	
		9/17/2020	21.28	7.05	191	0.102	4.96	505	
		9/19/2020	20.82	6.96	149	0.1	6.16	98.8	x
		9/24/2020	17.04	6.69	183	0.101	4.22	0	
		9/26/2020	18.34	6.1	194	0.064	6.05	271	x
		10/1/2020	17.16	6.87	136	0.11	4.82	9.7	
		10/7/2020	22.65	7.06	133	0.176	6.12	0.3	
		10/12/2020	20.35	6.03	282	0.057	3.15	389	x
		10/22/2020	16.03	6.37	225	0.119	7.43	14.1	
		10/31/2020	12.23	6.45	240	0.102	6.47	297	
		11/5/2020	17.06	6.68	170	0.08	7.56	54.2	
		11/13/2020	17.11	6.4	250	0.026	6.39	314	x
		11/19/2020	7.94	5.89	189	0.091	5.44	136	
		12/1/2020	11.00	6.69	184.3	0.137	8.17	60.7	x
		12/17/2020	8.70	6.62	235.2	0.115	12.8	61.3	x
		12/30/2020	6.90	7.08	80.9	0.143	12.34	14.9	
		1/14/2021	10.60	7.42	126.2	0.144	13.11	13.9	
		1/27/2021	10.50	7.12	186.9	0.115	14.76	64.7	x
2/12/2021	6.20	7.01	179	0.102	17.02	36.5	x		
2/26/2021	9.80	7.02	269.5	0.115	10.26	42.1			
3/10/2021	18.20	7.46	176.3	0.151	12.61	12			
SW-6	Clarke Creek (Downgradient of Ramah Creek confluence)	8/15/2020	25.97	7.56	109	0.131	6.50	20.7	
		8/16/2020	24.06	7.13	125	0.107	4.42	122	
		8/17/2020	24.06	7.64	124	0.139	7.38	71.3	
		8/18/2020	21.92	7.49	110	0.136	7.03	52.4	
		8/19/2020	23.21	7.56	127	0.142	7.7	23	
		8/20/2020	22.42	7.79	126	0.151	6.38	17	
		8/21/2020	22.09	7.56	131	0.14	5.55	15.7	
		8/22/2020	22.52	7.69	113	0.138	6.03	28	
		8/27/2020	25.02	7.64	228	0.17	5.32	3.8	
		9/1/2020	26.00	7.19	156	0.151	5.08	103	x
		9/2/2020	27.23	6.34	224	0.058	2.51	389	x
		9/3/2020	25.38	6.57	202	0.057	4.38	135	x
		9/10/2020	24.48	7.02	211	0.16	4.93	18.7	
		9/17/2020	21.66	6.76	225	0.133	5.51	39	
		9/19/2020	21.06	6.82	279	0.111	5.53	57.5	x
		9/24/2020	17.19	6.67	195	0.108	10	21.4	
		9/26/2020	19.04	6.22	207	0.052	9.75	102	x
		10/1/2020	17.17	6.84	179	0.119	7.72	19.5	
		10/7/2020	22.00	7.1	186	0.207	6.05	0.5	
		10/12/2020	20.95	5.72	291	0.046	1.35	515	x
		10/22/2020	15.92	6.48	245	0.136	2.87	20.9	
		10/31/2020	13.23	6.72	256	0.108	3.45	209	
		11/5/2020	15.77	6.54	208	0.069	8.21	116	
		11/13/2020	18.17	6.3	259	0.02	7.7	410	x
		11/19/2020	7.62	6.09	204	0.11	8.15	106	
		12/1/2020	10.00	6.48	204.6	0.135	5.65	46	x
		12/17/2020	7.60	6.04	288	0.189	15	57.1	x
		12/30/2020	6.20	6.8	36	0.185	10.04	21.7	
		1/14/2021	9.90	7.2	110.6	0.174	12.44	16.9	
		1/27/2021	9.70	6.88	223.1	0.123	16.67	74.1	x
2/12/2021	6.10	6.94	185.2	0.125	16.57	33.6	x		
2/26/2021	9.60	6.86	278.3	0.143	11.38	28.9			
3/10/2021	16.90	7.09	99.1	0.194	12.37	17.5			

Note:

(1) Last update: 03/17/2021

Red Text: Malfunction in equipment or misrecorded value

ORWQM: Outside the Range of the Water Quality Meter (over 1000 NTU)

**Table 2. Surface Water General Parameter Measurements  
2020-L1-SR2448 Incident**

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)	Rain Event
SW-7	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.81	7.56	132	0.175	6.65	45.5	
		8/16/2020	23.98	7.33	127	0.103	6.02	254	
		8/17/2020	25.00	7.76	101	0.122	6.89	102	
		8/18/2020	22.22	7.54	114	0.16	7.15	71.7	
		8/19/2020	22.89	7.63	118	0.181	6.39	41.5	
		8/20/2020	22.67	7.75	145	0.179	6.02	33.5	
		8/21/2020	22.54	7.57	141	0.191	6.08	49	
		8/22/2020	22.66	7.65	124	0.161	6.11	52.9	
		8/27/2020	25.42	7.88	247	0.24	5.61	25	
		9/1/2020	25.66	7.00	183	0.106	4.72	197	x
		9/2/2020	31.26	4.96	338	2.28	6.15	163	x
		9/3/2020	26.12	5.81	312	0.134	3.51	108	x
		9/10/2020	24.39	6.19	303	0.216	6.02	26.6	
		9/17/2020	21.81	5.93	287	0.21	6.37	138	
		9/19/2020	21.22	6.65	335	0.127	6.16	43.2	x
		9/24/2020	17.50	6.06	194	0.161	5.4	10	
		9/26/2020	18.85	5.67	200	0.088	10.57	189	x
		10/1/2020	16.43	6.08	217	0.133	6.35	57.9	
		10/7/2020	23.92	6.96	207	0.242	5.45	6.8	
		10/12/2020	20.01	5.03	309	0.134	2.07	410	x
		10/22/2020	17.12	6.06	265	0.174	3.81	22.5	
		10/31/2020	13.82	6.15	256	0.124	0.44	167	
		11/5/2020	18.47	5.99	209	0.136	6.17	64.1	
		11/13/2020	18.16	6.03	263	0.037	2.5	357	x
		11/19/2020	8.09	5.78	271	0.145	3.81	105	
12/1/2020	11.60	6.5	234.2	0.018	10.51	70.3	x		
12/17/2020	10.60	3.96	202.9	0.01	12.56	64.7	x		
12/30/2020	6.70	7.02	86.5	0.192	10.4	18.3			
1/14/2021	10.00	7.47	116	0.202	14.41	18.3			
1/27/2021	9.50	6.75	243.3	0.15	12.84	64.8	x		
2/12/2021	6.90	7.12	193.6	0.134	12.26	53.7	x		
2/26/2021	10.00	7.11	283.9	0.175	10.25	19.5			
3/10/2021	16.70	7.63	164.1	0.203	15.78	12.28			
SW-8	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.72	7.65	105	0.164	7.71	56.4	
		8/16/2020	24.19	7.47	136	0.098	6.34	280	
		8/17/2020	25.66	7.84	134	0.189	6.88	15.5	
		8/18/2020	22.44	7.60	105	0.15	6.9	73.3	
		8/19/2020	23.05	7.58	130	0.171	5.34	43.5	
		8/20/2020	22.77	7.68	178	0.168	3.6	50.4	
		8/21/2020	22.73	7.53	127	0.193	5.7	33.5	
		8/22/2020	22.72	7.72	115	0.145	6.5	60.1	
SW-9	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.27	7.57	126	0.165	5.61	93.1	
		8/16/2020	23.83	7.49	125	0.087	4.11	332	
		8/17/2020	23.01	7.40	98	0.117	6.77	101	
		8/18/2020	23.12	7.60	140	0.135	6.47	72.2	
		8/19/2020	23.31	7.33	136	0.161	5.9	34.1	
		8/20/2020	23.45	7.45	203	0.139	5.34	40.1	
		8/21/2020	23.43	7.33	126	0.168	4.86	23.5	
		8/22/2020	22.99	7.55	131	0.156	6.24	109	
SW-10	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.44	7.56	127	0.169	6.18	77.7	
		8/16/2020	24.14	7.34	125	0.091	5.39	459	
		8/17/2020	23.15	7.31	113	0.134	6.16	115	
		8/18/2020	23.52	7.62	142	0.158	6.36	154	
		8/19/2020	23.54	7.2	147	0.191	5.46	3.89	
		8/20/2020	23.1	7.45	158	0.112	5.62	219	
		8/21/2020	23.61	7.2	152	0.124	4.95	35.1	
		8/22/2020	23.39	7.53	128	0.163	5.43	62.3	

Note:

(1) Last update: 03/17/2021

Red Text: Malfunction in equipment or misrecorded value

ORWQM: Outside the Range of the Water Quality Meter (over 1000 NTU)

**Table 2. Surface Water General Parameter Measurements  
2020-L1-SR2448 Incident**

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)	Rain Event
SW-11	Rocky River (Downgradient of Mallard Creek)	8/15/2020	25.01	7.60	125	0.155	7.15	143	
		8/16/2020	24.24	7.02	153	0.086	5.33	466	
		8/17/2020	23.20	7.3	128	0.112	6.82	144	
		8/18/2020	23.6	7.59	121	0.143	6.36	90.5	
		8/19/2020	23.4	7.11	191	0.151	4.2	105	
		8/20/2020	23.06	7.55	201	0.098	5.05	359	
		8/21/2020	23.33	6.88	198	0.143	3.67	48.9	
		8/22/2020	23.28	7.58	124	0.139	6.29	55.6	
SW-12	Rocky River (Downgradient of Back Creek)	8/15/2020	25.03	7.61	130	0.159	6.98	157	
		8/16/2020	24.22	7.22	150	0.091	6.01	433	
		8/17/2020	23.10	7.45	121	0.105	6.74	152	
		8/18/2020	23.73	7.73	120	0.141	7.07	117	
		8/19/2020	23.31	6.9	226	0.153	5.45	56.8	
		8/20/2020	23.12	7.72	119	0.096	5.83	565	
		8/21/2020	23.36	6.38	266	0.138	4.66	51.3	
		8/22/2020	23.27	7.74	124	0.148	6.11	93.7	
SW-Seep	Downgradient of Spill Location	9/1/2020	25.73	5.6	76	0.13	1.2	228	x
		9/2/2020	28.17	7.13	171	0.121	2.95	6.97	x
		9/3/2020	31.55	6.24	183	0.113	4.99	516	x
		9/10/2020	25.85	7.16	114	0.12	6.24	188	
		9/17/2020	22.23	7.3	108	0.098	5.81	566	
		9/19/2020	22.30	5.66	132	0.082	0	190	x
		9/24/2020	20.94	7.02	168	0.03	2.31	336	
		9/26/2020	20.81	6.55	157	0.063	3.79	645	x
		10/1/2020	31.28	6.27	64	0.066	3.98	0	
		10/7/2020	20.20	5.97	179	0.109	6.35	24.9	
		10/12/2020	23.51	6.06	225	0.098	3.94	98	x
		10/22/2020	21.86	6.17	55	0.113	8.47	728	
		10/31/2020	18.52	6.65	131	0.076	9.83	373	
		11/5/2020	19.86	6.78	138	0.048	6.09	86.5	
		11/13/2020	18.24	6.62	147	0.037	7.97	704	x
		11/19/2020	14.36	6.35	99	0.07	253	649	
		12/1/2020	13.50	5.89	116.3	0.128	7.93	18.5	x
		12/17/2020	11.10	5.86	229.5	0.136	7.3	19.8	x
		12/30/2020	7.80	5.95	228.2	0.149	9.87	11.25	
		1/14/2021	8.40	6.64	164	0.164	11.45	9.2	
1/27/2021	12.10	6.74	133.3	0.148	19.2	13.06	x		
2/12/2021	5.90	6.3	205.3	0.138	11.91	49.5	x		
2/26/2021	9.50	5.15	302.9	0.105	7.85	11.52			
3/10/2021	12.90	6.71	216.2	0.098	14.29	22.2			
SW-Confluence	Downgradient of Spill Location	9/1/2020	23.88	6.46	59	0.225	2.75	618	x
		9/2/2020	28.91	7.69	177	0.13	6.51	156	x
		9/3/2020	28.58	7.16	148	0.249	7.1	245	x
		9/10/2020	23.89	6.46	19	0.279	1.27	159	
		9/17/2020	22.36	7.45	176	0.123	6.45	59.2	
		9/19/2020	20.62	7.58	131	0.116	4.93	86.7	x
		9/24/2020	18.59	6.13	188	0.165	10.93	234	
		9/26/2020	20.36	6.86	151	0.086	2.3	2.03	x
		10/1/2020	18.98	6.55	88	0.14	1.89	358	
		10/7/2020	21.56	6.36	143	0.279	5	29.2	
		10/12/2020	23.52	6.26	218	0.114	8.4	262	x
		10/22/2020	20.08	6.59	161	0.242	9.1	704	
		10/31/2020	12.46	7.37	162	0.109	4.72	245	
		11/5/2020	17.09	6.41	156	0.084	4.99	202	
		11/13/2020	18.39	6.33	234	0.052	8.29	991	x
		11/19/2020	11.00	6.86	96	0.175	9.43	541	
		12/1/2020	10.60	6.44	61.7	0.165	9.91	26.8	x
		12/17/2020	9.10	6.6	128.6	0.146	10.07	16.5	x
		12/30/2020	5.80	6.05	130.7	0.164	10	9.5	
		1/14/2021	9.70	6.42	219.4	0.11	11.25	11.85	
1/27/2021	13.90	6.24	196.9	0.106	13.48	15.7	x		
2/12/2021	6.30	5.6	238	0.185	11.57	56.6	x		
2/26/2021	9.50	5.43	235.4	0.132	9.88	16.8			
3/10/2021	14.20	7.14	115.4	0.26	9.58	10.28			
SW-Seep 2	Downgradient of SW-Seep Location	3/10/2021	13	7.01	121	0.23	9.16	2.64	
SW-Confluence 2	Downgradient of SW-Confluence Location	3/10/2021	13.2	7.34	107.6	0.228	8.14	18	

x Rainfall event (Rain > 1"/24h)

Note:

(1) Last update: 03/17/2021

Red Text: Malfunction in equipment or misrecorded value

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**APPENDIX E**  
**COPIES OF BILLS OF LANDING AND WASTE MANIFESTS**

**Table 1**  
**Summary of Liquids and Soil Removed from Site**  
**(August 15, 2020 - February 28, 2020)**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

Description	Volume on Bills of Lading (Gallons)	Volume from Frac Gauging (Gallons)
From Initial Response	--	90,930
Frac Tank Gauging Product Through 02/28/21	--	758,149
Frac Tank Gauging PCW Through 02/28/21	--	631,837
Total Fluids Shipped to STAT Facility for Bulking Through 02/28/2021	954,514	--
PCW Shipped by Legacy to HCC Through 02/28/2021	274,978	--
PCW Shipped by Legacy to Legacy Through 02/28/2021	266,292	--
Combined Total Liquids Removed Through 02/28/21 vs. Gauging	1,495,784	1,480,916
PCW Shipped to Aaron Oil Through 02/28/2021 <sup>(1)</sup>	174,478	--

Notes:

Summary of liquid and solids removed from site through the preceding month.

See Table 2 for summary of shipments to STAT.

See Table 3 for summary of shipments by Legacy to HCC.

See Table 4 for summary of shipments to Legacy.

See Table 5 for summary of soil shipped to Republic Services.

See Table 6 for summary of liquids shipped to Aaron Oil.

(1) Liquids shipped to Aaron Oil consist primarily of PCW drilling fluids and do not pass through Frac Tank systems.

**Table 2**  
**Summary of Liquids Removed by STAT**  
**(August 15, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Gallons</b>	<b>Bill of Lading No.</b>	<b>Bill of Lading Previously Provided</b>
8/15/2020	5,230	9359	X
8/15/2020	4,300	9360	X
8/15/2020	4,500	9362	X
8/15/2020	4,700	9364	X
8/16/2020	5,500	8753	X
8/16/2020	4,500	8641	X
8/16/2020	4,700	9240	X
8/16/2020	4,500	8752	X
8/16/2020	5,500	9717	X
8/16/2020	5,030	9504	X
8/16/2020	5,010	9503	X
8/16/2020	4,750	9501	X
8/16/2020	5,200	8668	X
8/16/2020	5,178	8642	X
8/16/2020	5,150	9348	X
8/17/2020	4,500	7211	X
8/17/2020	3,230	9509	X
8/17/2020	5,345	9510	X
8/17/2020	4,500	8667	X
8/18/2020	5,460	9719	X
9/4/2020	4,311	9547	X
9/4/2020	2,783	9555	X
9/6/2020	5,279	9556	X
9/6/2020	3,589	9546	X
9/9/2020	4,964	9553	X
9/9/2020	5,264	9554	X
9/11/2020	5,333	9570	X
9/12/2020	4,964	9568	X
9/14/2020	4,797	9567	X
9/14/2020	4,479	9565	X
9/15/2020	5,712	9560	X
9/16/2020	4,908	9561	X
9/18/2020	5,015	9562	X
9/18/2020	4,908	9563	X
9/21/2020	5,375	9572	X
9/21/2020	5,045	9564	X
9/21/2020	5,691	9559	X

**Table 2**  
**Summary of Liquids Removed by STAT**  
**(August 15, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Gallons</b>	<b>Bill of Lading No.</b>	<b>Bill of Lading Previously Provided</b>
9/21/2020	5,045	9571	X
9/22/2020	5,326	9558	X
9/25/2020	5,122	9573	X
9/25/2020	5,121	9574	X
9/25/2020	5,423	15511	X
9/28/2020	5,539	9576	X
9/28/2020	5,606	9575	X
9/30/2020	5,423	9583	X
9/30/2020	5,086	9582	X
10/2/2020	5,516	9581	X
10/2/2020	5,447	9580	X
10/5/2020	5,470	9579	X
10/5/2020	5,149	9589	X
10/6/2020	5,670	9588	X
10/6/2020	5,086	9587	X
10/7/2020	5,043	9586	X
10/8/2020	5,712	9585	X
10/9/2020	5,016	9584	X
10/12/2020	5,516	9578	X
10/12/2020	5,649	9590	X
10/13/2020	5,628	9591	X
10/15/2020	5,606	9592	X
10/16/2020	5,493	9593	X
10/16/2020	5,423	9594	X
10/20/2020	5,562	15506	X
10/20/2020	5,493	15510	X
10/22/2020	5,423	9595	X
10/22/2020	5,606	204	X
10/23/2020	5,649	203	X
10/23/2020	5,691	9596	X
10/26/2020	4,142	9600	X
10/26/2020	5,695	202	X
10/27/2020	5,617	9599	X
10/27/2020	5,695	201	X
10/30/2020	5,448	207	X
10/30/2020	5,492	9597	X
11/2/2020	5,767	206	X

**Table 2**  
**Summary of Liquids Removed by STAT**  
**(August 15, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Gallons</b>	<b>Bill of Lading No.</b>	<b>Bill of Lading Previously Provided</b>
11/2/2020	5,695	205	X
11/2/2020	4,145	9598	X
11/3/2020	5,448	231	X
11/4/2020	5,403	230	X
11/5/2020	5,617	229	X
11/6/2020	5,448	228	X
11/9/2020	5,492	232	X
11/9/2020	5,535	227	X
11/11/2020	5,535	240	X
11/11/2020	5,492	233	X
11/13/2020	5,577	237	X
11/13/2020	5,492	236	X
11/16/2020	5,448	235	X
11/17/2020	5,492	208	X
11/18/2020	5,577	234	X
11/18/2020	5,802	241	X
11/19/2020	5,215	242	X
11/19/2020	5,358	243	X
11/23/2020	5,535	244	X
11/24/2020	5,492	245	X
11/25/2020	5,215	246	X
11/25/2020	5,403	247	X
11/30/2020	5,535	248	X
11/30/2020	5,492	249	X
12/1/2020	5,577	250	X
12/1/2020	5,555	251	X
12/3/2020	5,657	252	X
12/3/2020	5,535	253	X
12/4/2020	5,617	254	X
12/7/2020	5,535	255	X
12/8/2020	5,264	256	X
12/9/2020	5,535	257	X
12/10/2020	5,264	258	X
12/11/2020	5,577	259	X
12/14/2020	5,617	260	X
12/15/2020	5,695	261	X
12/17/2020	5,577	262	X

**Table 2**  
**Summary of Liquids Removed by STAT**  
**(August 15, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

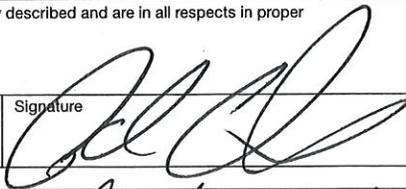
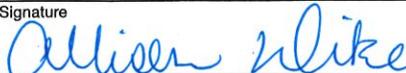
<b>Date</b>	<b>Gallons</b>	<b>Bill of Lading No.</b>	<b>Bill of Lading Previously Provided</b>
12/17/2020	5,802	263	X
12/18/2020	5,617	264	X
12/21/2020	5,358	265	X
12/22/2020	5,555	266	X
12/22/2020	5,000	267	X
12/22/2020	5,535	268	X
12/23/2020	5,577	269	X
12/23/2020	5,000	270	X
12/23/2020	5,577	271	X
12/28/2020	5,535	272	X
12/28/2020	5,617	274	X
12/28/2020	5,000	273	X
12/29/2020	5,802	275	X
12/30/2020	5,120	277	X
12/31/2020	5,864	276	X
1/4/2020	5,695	280	X
1/4/2020	5,543	279	X
1/4/2020	5,535	278	X
1/5/2021	5,732	282	X
1/5/2021	4,682	281	X
1/7/2021	5,577	283	X
1/9/2021	5,492	285	X
1/10/2021	5,577	284	X
1/11/2021	5,264	286	X
1/13/2021	5,617	289	X
1/14/2021	5,535	290	X
1/15/2021	4,979	291	X
1/15/2021	5,291	292	X
1/16/2021	5,400	295	X
1/18/2021	5,264	296	X
1/18/2021	5,400	293	X
1/19/2021	5,577	298	X
1/20/2021	5,535	299	X
1/21/2021	5,577	297	X
1/22/2021	5,695	300	X
1/23/2021	5,732	225	X
1/25/2021	5,492	223	X

**Table 2**  
**Summary of Liquids Removed by STAT**  
**(August 15, 2020 - February 28, 2021)**

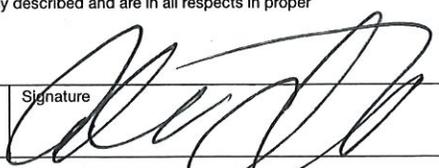
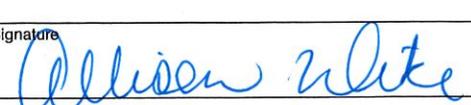
Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Gallons</b>	<b>Bill of Lading No.</b>	<b>Bill of Lading Previously Provided</b>
1/25/2021	5,450	224	X
1/26/2021	5,492	221	X
1/26/2021	5,400	220	X
1/27/2021	5,264	219	X
1/28/2021	5,403	218	X
1/29/2021	4,911	217	X
1/29/2021	5,069	216	X
2/1/2021	5,865	215	
2/2/2021	5,577	214	
2/3/2021	5,264	210	
2/4/2021	4,641	213	
2/5/2021	5,535	9045	
2/8/2021	5,535	9055	
2/8/2021	5,191	9054	
2/9/2021	5,895	9053	
2/9/2021	4,825	9052	
2/10/2021	5,990	9051	
2/11/2021	3,733	9050	
2/12/2021	5,577	9049	
2/15/2021	5,264	9048	
2/16/2021	5,732	9047	
2/17/2021	4,000	9059	
2/17/2021	4,811	222	
2/18/2021	5,700	9056	
2/19/2021	5,200	9057	
2/22/2021	5,767	9077	
2/22/2021	5,827	9078	
2/24/2021	5,932	9046	
2/24/2021	5,921	9076	
2/25/2021	5,150	9061	
2/26/2021	5,400	9064	
2/28/2021	5,000	9062	
<b>Total</b>	<b>954,514</b>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC.</b>	2. BOL # <b>00215</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord Rd Huntersville NC</i>		4. Shipper's Phone			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone #			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <i>STAT INC 2550 Hickory Blvd Lenoir NC 28645</i>		F. Consignee Phone			
<b>HM</b>	11. Base Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	a. <i>UN1993 Flammable Liquid NO3 (contains less than 10% gas/water) PGI III</i>	No.	Type	<i>EST 5,865</i>	<i>G</i>
	b.	<i>01</i>	<i>TI</i>		
	c.				
	d.				
G. Additional Descriptions for Materials Listed Above  <b>USE DOT GUIDE #</b> <u><i>128</i></u>					
15. Special Handling Instructions and Additional Information					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name <i>Alan Harris</i>		Signature 		Date Month Day Year	
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Charles Wilcox</i>		Signature 		Date Month Day Year <i>02   01   21</i>	
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name <i>Allison Wike</i>		Signature 		Date Month Day Year <i>2   1   21</i>	

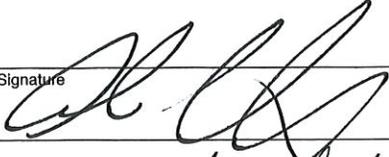
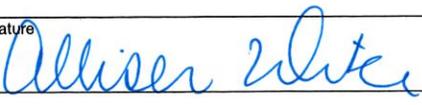
# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC.</b>	2. BOL # <b>00214</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord Rd Huntersville NC</i>		4. Shipper's Phone			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone #			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <i>STAT INC 2580 Hickory Blvd Levitz NC 28045</i>		F. Consignee Phone			
<b>HM</b>	11. Base Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	a. <i>UN1993 Flammable Liquid NO3 (contains less than 10% gas/water) 6/11/11</i>	No.	Type	EST. <i>5,577</i>	<i>G</i>
	b.				
	c.				
	d.				
G. Additional Descriptions for Materials Listed Above  <b>USE DOT GUIDE #</b> <u>          <i>128</i>          </u>					
15. Special Handling Instructions and Additional Information					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name <i>Adam Harris</i>		Signature 		Date Month Day Year <i>02 02 21</i>	
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Charles Wilcox</i>		Signature 		Date Month Day Year <i>02 02 21</i>	
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name <i>Allison Wike</i>		Signature 		Date Month Day Year <i>2 2 21</i>	

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC.</b>	2. BOL # <b>00210</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone #			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <i>STAT INC 2550 Hickory Blvd Lenoir NC 28645</i>		F. Consignee Phone			
<b>HM</b>	11. Base Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	a. <i>UN1993 Flammable Liquid NO3 Contains less than 10% gas/water) PG III</i>	No.	Type	EST 5,264	G
	b.				
	c.				
	d.				
G. Additional Descriptions for Materials Listed Above  USE DOT GUIDE # <u>128</u>					
15. Special Handling Instructions and Additional Information					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name <i>Jamie Lollis</i>		Signature <i>Jamie Lollis</i>		Date Month Day Year <i>02   03   21</i>	
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Charles Wilcox</i>		Signature <i>Charles Wilcox</i>		Date Month Day Year <i>02   03   21</i>	
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name <i>Allison Wike</i>		Signature <i>Allison Wike</i>		Date Month Day Year <i>2   3   21</i>	

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC.</b>	2. BOL # <b>00213</b>		
3. Shipper Name & Address <i>CPL 24108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone #			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <i>STAT INC 2550 Hickory Blvd Zenoir NC 28645</i>		F. Consignee Phone			
<b>HM</b>	11. Base Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	<i>X</i> a. UN1993 Flammable Liquid ND3 <i>(contains less than 10% gas/water) PG III</i>	No.	Type	EST. 4641	G
	b.				
	c.				
	d.				
G. Additional Descriptions for Materials Listed Above  USE DOT GUIDE # <u>128</u>					
15. Special Handling Instructions and Additional Information					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name <i>Alan Harris</i>		Signature 		Date Month Day Year <i>2   4   21</i>	
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Charles Wilcox</i>		Signature 		Date Month Day Year <i>02   04   21</i>	
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name <i>Allison Wike</i>		Signature 		Date Month Day Year <i>2   4   21</i>	

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>	2. BOL # <b>09045</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>			
<b>HM</b>	11. Base Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
		No.	Type		
	<i>P</i>			<i>EST</i>	
	<i>UN1993 Flammable Liquid NOS (contains less than 10% g/s/water) PG II</i>	<i>01</i>	<i>TI</i>	<i>5535</i>	<i>G</i>
	b.				
	c.				
	d.				
G. Additional Descriptions for Materials Listed Above					
USE DOT GUIDE # <u>          <i>12V</i>          </u>					
15. Special Handling Instructions and Additional Information					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name		Signature		Date	
<i>Jamie Lollis</i>		<i>Jamie Lollis</i>		Month Day Year <i>02 05 21</i>	
17. Carrier Acknowledgement of Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Date	
<i>Charles Wilcox</i>		<i>Charles Wilcox</i>		Month Day Year <i>02 05 21</i>	
18. Carrier Acknowledgement of Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Date	
				Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name		Signature		Date	
<i>Allison Wike</i>		<i>Allison Wike</i>		Month Day Year <i>2 5 21</i>	

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09055</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	<b>X</b>	a. <i>UN1993 Flammable Liquid NOS (contains less than 10% gas/water) PG III</i>		<i>01</i>	<i>TI</i>	<i>EST 5,535</i>
		b.				<i>G</i>
		c.				
	d.					
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>          128          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name		Signature		Date		
<i>Jamie Lollis</i>		<i>Jamie Lollis</i>		Month Day Year <i>02   08   21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date		
<i>Charles Wilcox</i>		<i>Charles Wilcox</i>		Month Day Year <i>02   08   21</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date		
				Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name		Signature		Date		
<i>Allison Wike</i>		<i>Allison Wike</i>		Month Day Year <i>2   8   21</i>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09054</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone <i>1-800-627-1451</i>				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	X	a. <i>UN1993 Flammable Liquid NOS (contains less than 10% gas/water) PG III</i>		<i>01</i>	<i>TI</i>	<i>ES 5191</i>
		b.				<i>G</i>
		c.				
	d.					
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>          <i>181</i>          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Jamie Lollis</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>02 08 21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Marcus Harris</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>02 8 2021</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Wike</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2 8 21</i>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09053</b>	
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>			
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity
			No.	Type	Unit Wt/Vol
	a. <i>UN1993 Flammable Liquid NOS</i>				
	X <i>Contains Less than 10% gas/water) PGTT 01</i>		<i>11</i>	<i>TI</i>	<i>EST. 5895</i>
	b.				<i>GT</i>
c.					
d.					
G. Additional Descriptions for Materials Listed Above					
USE DOT GUIDE # <u>          128          </u>					
15. Special Handling Instructions and Additional Information					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name <i>Adam Harris</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2 9 21</i>	
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Charles Wilcox</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>02 09 21</i>	
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name <i>Allison Wike</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2 9 21</i>	

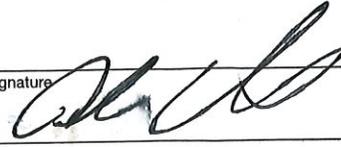
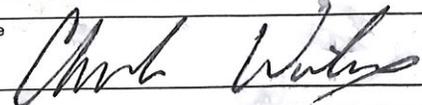
# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09052</b>		
3. Shipper Name & Address <i>CDL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	<i>X</i>	<i>UN1993 Flammable Liquid NOS (contains less than 10% gas/water) PG III</i>		<i>01</i>	<i>11</i>	<i>ES 4825</i>
	b.					
	c.					
d.						
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>          128          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Adam Harris</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2   9   21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Tim Killen</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2   9   21</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Wike</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2   9   21</i>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09051</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord ED Huntersville NC</i>		4. Shipper's Phone				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	a. <i>UN1993 Flammable Liquid NDS</i> b. <i>(contains less than 10% gas/water) (GILL 01)</i>		11	11	<i>EST. 5990</i>	<i>G</i>
	c.					
	d.					
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>          128          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Adam Harris</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2   10   21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>x Charles Wilcox</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>02   10   21</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Wike</i>		Signature <i>Allison Wike</i>		Date Month Day Year <i>2   10   21</i>		

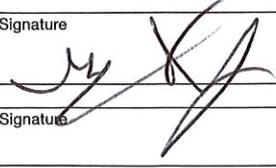
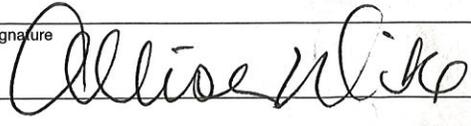
# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09050</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone <b>1-800-627-1451</b>				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	a.	<i>UN 1993 Flammable Liquid NOS (contains less than 10% gas/water) PG III</i>		<i>01</i>	<i>TI</i>	<i>EST 3733</i>
	b.					
	c.					
d.						
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>          128          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Adam Harris</i>		Signature 		Date Month Day Year <b>2   11   21</b>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Charles Wilcox</i>		Signature 		Date Month Day Year <b>02   11   21</b>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Wike</i>		Signature <i>Allison Wike</i>		Date Month Day Year <b>2   11   21</b>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09049</b>	
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone <i>1-800-627-1451</i>			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>			
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity
			No.	Type	Unit
	a. <i>UN1993 Flammable Liquid NOS</i>				
	X <i>(contains less than 10% gas/water) PG III 01</i>		<i>TI</i>	<i>TI</i>	<i>5577</i>
	b. <i>GT</i>				
c.					
d.					
G. Additional Descriptions for Materials Listed Above  <b>USE DOT GUIDE # <u>128</u></b>					
15. Special Handling Instructions and Additional Information  <b>FRACK TANK 101</b>					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name <i>Alan Adams</i>		Signature <i>[Signature]</i>		Date Month Day Year <b>2   12   21</b>	
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <b>DEAN BUNGARNER</b>		Signature <i>[Signature]</i>		Date Month Day Year <b>2   12   21</b>	
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name <b>Allison Wike</b>		Signature <i>Allison Wike</i>		Date Month Day Year <b>2   12   21</b>	

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09048</b>	
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone <b>1-800-627-1451</b>			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>			
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity
			No.	Type	
	a. <i>UN1993 Flammable Liquid NOS</i>		<i>01</i>	<i>TI</i>	
	X <i>Contains less than 10% gas/water) Plc III</i>		<del>01</del>	<del>TI</del>	<i>575264</i>
	b.				<i>G</i>
c.					
d.					
G. Additional Descriptions for Materials Listed Above  <b>USE DOT GUIDE # <u>128</u></b>					
15. Special Handling Instructions and Additional Information					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name <i>Adam Harris</i>		Signature 		Date Month Day Year <i>2   15   21</i>	
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>George Bishop Jr</i>		Signature 		Date Month Day Year <i>2   15   21</i>	
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name <i>Allison Nike</i>		Signature 		Date Month Day Year <i>2   15   21</i>	

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09047</b>		
3. Shipper Name & Address <i>CPL 14108 HUNTERSVILLE CONCORD RD HUNTERSVILLE NC</i>		4. Shipper's Phone <i>1-800-627-1451</i>				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type	14. Unit Wt/Vol	
	<b>X</b>	a. <i>UN1993 Flammable Liquid NOS (Contains Less than 10% gas/water) PL III</i>	<i>01</i>	<i>TT</i>	<i>5732</i>	<i>G</i>
		b.				
		c.				
	d.					
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>          <i>128</i>          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Adam Harris</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2   16   21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>George Bishop Jr</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2   16   21</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Wike</i>		Signature <i>Allison Wike</i>		Date Month Day Year <i>2   16   21</i>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09059</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord ED Huntersville NC</i>		4. Shipper's Phone <i>1 800 627 1451</i>				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	a. <i>UN1093 Flammable Liquid NOS (contains less than 10% aq/water) PL III 01</i>		<i>1</i>	<i>TI</i>	<i>4000</i>	<i>G</i>
	b.					
	c.					
d.						
G. Additional Descriptions for Materials Listed Above  USE DOT GUIDE # <u>          <i>108</i>          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Adam Harris</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2   17   21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>George Biskup Jr</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2   17   21</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Wike</i>		Signature <i>Allison Wike</i>		Date Month Day Year <i>2   17   21</i>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC.</b>	2. BOL # <b>00222</b>		
3. Shipper Name & Address <i>CP 14108 Huntersville Concord Rd Huntersville NC</i>		4. Shipper's Phone			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <i>800 427 1451</i>			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <i>STAT INC 2550 Hickory Blvd Lenoir NC 28645</i>		F. Consignee Phone			
<b>HM</b>	11. Base Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	a. <i>UN1993 Flammable Liquid NOS (contains less than 10% gas phase) PET III</i>	No.	Type	<i>4811</i>	<i>4</i>
	b.				
	c.				
	d.				
G. Additional Descriptions for Materials Listed Above  USE DOT GUIDE # <u><i>128</i></u>					
15. Special Handling Instructions and Additional Information					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name <i>Adam Harris</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2 17 21</i>	
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Richard Haigler</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>02 17 21</i>	
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name <i>Allison Wike</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2 17 21</i>	

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09056</b>	
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone <i>1 800 627 1451</i>			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>			
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity
			No.	Type	Unit
	a. <i>UNPP3 Flammable Liquid NOS</i>				
	b. <i>Contains Less than 10% gas/water) Pl III</i>		<i>01</i>	<i>TI</i>	<i>151500</i>
	c.				
	d.				
G. Additional Descriptions for Materials Listed Above  USE DOT GUIDE # <u>          <i>28</i>          </u>					
15. Special Handling Instructions and Additional Information					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name <i>Adam Harris</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>02 18 21</i>	
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Richard Haigler</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>02 18 21</i>	
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name <i>Allison Nike</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2 18 21</i>	

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09057</b>	
3. Shipper Name & Address <i>14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone <i>1800 627 1451</i>			
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>			
7. Carrier		D. Carrier Phone			
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>			
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity
			No.	Type	
	a. <i>UN1993 Flammable Liquid NOS</i>				
	b. <i>(contains less than 10% gas/liquid) Pl III</i>		<i>01</i>	<i>TI</i>	<i>EST 5200</i>
	c.				
d.					
G. Additional Descriptions for Materials Listed Above  USE DOT GUIDE # <u>          <i>128</i>          </u>					
15. Special Handling Instructions and Additional Information					
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport					
Printed/Typed Name <i>Jamie Lollis</i>		Signature <i>Jamie Lollis</i>		Date Month Day Year <i>02   19   21</i>	
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Mike Angel</i>		Signature <i>Mike Angel</i>		Date Month Day Year <i>02   19   21</i>	
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Consignee					
Printed/Typed Name <i>Allison Wike</i>		Signature <i>Allison Wike</i>		Date Month Day Year <i>2   19   21</i>	

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09077</b>		
3. Shipper Name & Address <i>CPK 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	<i>X</i>	a. <i>UN1203 Flammable Liquid NOS PG III</i>	<i>01</i>	<i>TT</i>	<i>EST 5767</i>	<i>G</i>
		b.				
		c.				
	d.					
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>          <i>178</i>          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Jamie Lollis</i>		Signature <i>Jamie Lollis</i>		Date Month Day Year <i>02 22 21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>DEAN BUNGARNER</i>		Signature <i>Dean Bungarner</i>		Date Month Day Year <i>02 22 21</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Wike</i>		Signature <i>Allison Wike</i>		Date Month Day Year <i>2 22 21</i>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09078</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord RD Huntersville NC</i>		4. Shipper's Phone				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>  <i>X</i>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	a. <i>UN1203 Flammable Liquids NOS PG III</i>		<i>01</i>	<i>TI</i>	<i>EST 5827</i>	<i>6</i>
	b.					
	c.					
d.						
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>          <i>178</i>          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Jamie Lollis</i>		Signature <i>Jamie Lollis</i>		Date Month Day Year <i>02 22 21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>DANNY ROARK</i>		Signature <i>Danny Roark</i>		Date Month Day Year <i>02 22 21</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Wike</i>		Signature <i>Allison Wike</i>		Date Month Day Year <i>2 22 21</i>		

# BILL OF LADING

	1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>	2. BOL # <span style="color: red; font-size: 1.2em;">09046</span>
3. Shipper Name & Address <i>CPL                  1408 HUNTERVILLE CONCORD RD                  HUNTERVILLE NC</i>	4. Shipper's Phone <i>1 800 627 1451</i>	
5. Carrier <b>STAT, INC.</b>	A. Carrier Phone # <b>(828) 396-2304</b>	
7. Carrier	D. Carrier Phone	
9. Consignee Name & Address <b>STAT, INC.                  2550 Hickory Blvd.                  Lenoir, NC 28645</b>	F. Consignee Phone <b>(828) 396-2304</b>	

HM	11. Base Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
		No.	Type		
X	a. <i>UN1993 Flammable Liquid NOS                      (contains less than 10% gas/water) Pk III</i> b.	01	TI	<i>EST 5952</i>	<i>PLG</i>
	c.				
	d.				

G. Additional Descriptions for Materials Listed Above

USE DOT GUIDE # 128

15. Special Handling Instructions and Additional Information

16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport

Printed/Typed Name <i>Jamie Lollis</i>	Signature <i>[Signature]</i>	Date Month Day Year <i>02 24 21</i>
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Printed/Typed Name <i>DANNY ROARK</i>	Signature <i>[Signature]</i>	Date Month Day Year <i>02 24 21</i>
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Printed/Typed Name	Signature	Date Month Day Year
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19. Discrepancy Indication Space

Printed/Typed Name <i>Allison Wike</i>	Signature <i>[Signature]</i>	Date Month Day Year <i>2 24 21</i>
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# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09076</b>		
3. Shipper Name & Address <i>CPL</i> <i>14108 Huntersville Concord RD</i> <i>Huntersville NC</i>		4. Shipper's Phone <i>1800 627 1451</i>				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC.</b> <b>2550 Hickory Blvd.</b> <b>Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	a. <i>UN1993 Flammable Liquid NOS</i> <i>(contains less than 10% gas/water) 16 II</i>		<i>01</i>	<i>TI</i>	<i>EST 5921</i>	<i>G</i>
	b.					
	c.					
d.						
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>          <i>128</i>          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Adam Harris</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>02 24 21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>DEAN BUNBARNER</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>02 24 21</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Wike</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2 24 21</i>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09061</b>		
3. Shipper Name & Address <i>CPL 14156 Hatterville Concord Rd Hatterville NC 28078</i>		4. Shipper's Phone <i>1800 627-1451</i>				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	a. <i>UN1993 Flammable Liquid NOS (CONTAINS LESS THAN 10% glycerol) PLATE</i>		<i>1</i>	<i>TI</i>	<i>EST 5150</i>	<i>G</i>
	b.					
	c.					
d.						
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>128</u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name		Signature		Date		
<i>Jamie Lollis</i>		<i>Jamie Lollis</i>		Month Day Year <i>02 25 21</i>		
17. Carrier Acknowledgement of Receipt of Materials		Signature		Date		
Printed/Typed Name		Signature		Month Day Year		
<i>Don Yaman</i>		<i>Don Yaman</i>		<i>2 25 21</i>		
18. Carrier Acknowledgement of Receipt of Materials		Signature		Date		
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space		Signature		Date		
20. Consignee		Signature		Date		
Printed/Typed Name		Signature		Month Day Year		
<i>Allison Wike</i>		<i>Allison Wike</i>		<i>2 25 21</i>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09064</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord Rd Huntersville NC 28078</i>		4. Shipper's Phone <i>1 800 627 1451</i>				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	X	a. <i>UN1993 Flammable Liquid NOS contains less than 10% gas/water) 16 III</i>		01	TI	25(5400)
		b.				G
		c.				
	d.					
G. Additional Descriptions for Materials Listed Above						
USE DOT GUIDE # <u>          128          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Jamie Lollis</i>		Signature <i>Jamie Lollis</i>		Date Month Day Year <i>02 26 21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>DEAN BERGNER</i>		Signature <i>Dean Bergner</i>		Date Month Day Year <i>02 26 2021</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Nike</i>		Signature <i>Allison Nike</i>		Date Month Day Year <i>2 26 21</i>		

# BILL OF LADING

		1. 24 Hour Emergency # <b>STAT, INC. 800-627-1451</b>		2. BOL # <b>09062</b>		
3. Shipper Name & Address <i>CPL 14108 Huntersville Concord Rd Huntersville NC 28078</i>		4. Shipper's Phone <i>1 800 627 1451</i>				
5. Carrier <b>STAT, INC.</b>		A. Carrier Phone # <b>(828) 396-2304</b>				
7. Carrier		D. Carrier Phone				
9. Consignee Name & Address <b>STAT, INC. 2550 Hickory Blvd. Lenoir, NC 28645</b>		F. Consignee Phone <b>(828) 396-2304</b>				
<b>HM</b>	11. Base Description		12. Containers		13. Total Quantity	
			No.	Type		
	<i>X</i>	<i>UN1993 Flammable Liquid NOS, (contains less than 10% gas/water) Pl III</i>		<i>01</i>	<i>11</i>	<i>EST 5000</i>
	a.					
	b.					
c.						
d.						
G. Additional Descriptions for Materials Listed Above  USE DOT GUIDE # <u>          <i>108</i>          </u>						
15. Special Handling Instructions and Additional Information						
16. Shipper: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport						
Printed/Typed Name <i>Adam Narris</i>		Signature <i>Adam Narris</i>		Date Month Day Year <i>2 28 21</i>		
17. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name <i>Adam Chase</i>		Signature <i>Adam Chase</i>		Date Month Day Year <i>2 28 21</i>		
18. Carrier Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Consignee						
Printed/Typed Name <i>Allison Wike</i>		Signature <i>Allison Wike</i>		Date Month Day Year <i>2 28 21</i>		

**Table 3**  
**Summary of Liquids Shipped to HCC**  
**(January 01, 2021 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

<b>Date</b>	<b>Gallons</b>	<b>Manifest No.</b>	<b>Manifest Previously Provided</b>
12/21/2020	5,490	10547	X
12/21/2020	4,792	10508	X
12/28/2020	3,200	8937	X
12/28/2020	5,500	8938	X
12/31/2020	4,545	10536	X
1/3/2021	5,500	10553	X
1/3/2021	5,906	10554	X
1/4/2021	3,400	10552	X
1/4/2021	4,100	11002	X
1/5/2021	5,906	11000	X
1/5/2021	2,800	11001	X
1/6/2021	2,699	10551	X
1/7/2021	4,545	11004	X
1/9/2021	5,704	10537	X
1/9/2021	3,888	8944	X
1/9/2021	2,140	8945	X
1/10/2021	2,693	10538	X
1/11/2021	3,911	8951	X
1/12/2021	4,669	8952	X
1/13/2021	5,598	10555	X
1/13/2021	5,500	10556	X
1/14/2021	5,208	8974	X
1/14/2021	5,342	8975	X
1/15/2021	4,243	8977	X
1/15/2021	2,809	8978	X
1/15/2021	5,490	11051	X
1/15/2021	2,950	11052	X
1/16/2021	2,700	11053	X
1/16/2021	3,593	11054	X
1/16/2021	3,800	11055	X
1/17/2021	3,600	8954	X
1/17/2021	2,700	8955	X
1/17/2021	3,600	8956	X
1/18/2021	2,700	8957	X
1/18/2021	4,233	8958	X
1/18/2021	3,390	8959	X
1/18/2021	4,128	8960	X
1/18/2021	2,160	11066	X

**Table 3**  
**Summary of Liquids Shipped to HCC**  
**(January 01, 2021 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

1/19/2021	3,788	8961	X
1/19/2021	4,243	8962	X
1/19/2021	3,783	8963	X
1/20/2021	2,500	8964	X
1/20/2021	3,800	8965	X
1/20/2021	4,315	8966	X
1/21/2020	2,772	8967	X
1/21/2021	4,416	8968	X
1/21/2021	3,868	8969	X
1/21/2021	3,011	8987	X
1/22/2021	4,372	8995	X
1/22/2021	3,822	8996	X
1/22/2021	2,717	8997	X
1/23/2021	4,473	8990	X
1/23/2021	2,763	8988	X
1/23/2021	3,515	8989	X
1/24/2021	4,512	8992	X
1/24/2021	2,801	8991	X
1/24/2021	3,927	8993	X
1/25/2021	4,233	8986	X
1/25/2021	3,692	8985	X
1/25/2021	3,528	11056	X
1/25/2021	2,835	8994	X
1/26/2021	2,500	11057	X
1/26/2021	3,696	9016	X
1/26/2021	4,224	9015	X
1/26/2021	5,800	8998	X
1/27/2021	4,320	8999	X
1/27/2021	3,620	9000	X
1/27/2021	4,224	9001	X
1/27/2021	3,840	9004	X
1/28/2021	3,936	9007	X
<b>Total</b>	<b>274,978</b>		

**Table 4**  
**Summary of Liquids Shipped to**  
**Legacy**  
**(January 01, 2021 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

<b>Date</b>	<b>Gallons</b>	<b>Manifest No.</b>	<b>Manifest Previously Provided</b>
1/28/2021	3,654	9006	X
1/28/2021	4,224	9005	X
1/28/2021	1,974	9003	X
1/29/2021	4,224	9008	X
1/29/2021	3,696	9010	X
1/29/2021	3,840	9017	X
1/29/2021	2,142	9011	X
1/30/2021	2,900	9013	X
1/30/2021	3,360	9014	X
1/30/2021	3,614	9018	X
2/1/2021	2,400	9019	
2/1/2021	3,612	9020	
2/1/2021	2,268	9021	
2/1/2021	2,814	9022	
2/1/2021	3,696	9029	
2/2/2021	3,696	8953	
2/2/2021	2,772	8979	
2/3/2021	3,612	9024	
2/3/2021	2,989	9023	
2/3/2021	2,940	9026	
2/4/2021	2,520	9025	
2/5/2021	3,150	9027	
2/5/2021	3,150	9028	
2/5/2021	2,800	7456	
2/6/2021	3,360	9030	
2/6/2021	2,772	9031	
2/6/2021	2,700	9032	
2/6/2021	3,696	9033	
2/6/2021	2,562	9034	
2/7/2021	4,176	9037	
2/8/2021	2,800	9038	
2/8/2021	3,698	9039	
2/8/2021	3,654	9040	
2/8/2021	2,600	9041	
2/8/2021	3,780	9042	
2/8/2021	4,100	9043	
2/8/2021	3,486	9044	

**Table 4**  
**Summary of Liquids Shipped to**  
**Legacy**  
**(January 01, 2021 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

2/9/2021	3,698	9047	
2/9/2021	2,458	9048	
2/9/2021	2,127	9049	
2/10/2021	3,363	9050	
2/10/2021	3,948	9051	
2/11/2021	3,444	9052	
2/11/2021	3,649	9053	
2/12/2021	3,531	9054	
2/12/2021	1,342	9055	
2/13/2021	3,574	9056	
2/15/2021	3,532	9057	
2/15/2021	3,532	9058	
2/15/2021	3,535	9060	
2/15/2021	3,740	9061	
2/16/2021	3,532	9059	
2/16/2021	3,573	9062	
2/16/2021	2,287	9063	
2/17/2021	3,589	9064	
2/17/2021	3,490	9065	
2/17/2021	3,552	9068	
2/18/2021	3,381	9069	
2/18/2021	3,377	9070	
2/19/2021	3,364	9102	
2/19/2021	2,700	9103	
2/19/2021	2,550	9100	
2/20/2021	3,368	9095	
2/20/2021	3,175	9099	
2/22/2021	3,368	9094	
2/22/2021	3,360	9101	
2/22/2021	2,142	9176	
2/22/2021	3,384	9180	
2/22/2021	2,880	9093	
2/23/2021	2,730	9178	
2/23/2021	2,746	9179	
2/24/2021	3,048	9177	
2/24/2021	2,801	9092	
2/24/2021	2,976	9182	
2/25/2021	2,625	9172	
2/25/2021	1,848	9170	
2/25/2021	2,491	9173	
2/26/2021	2,428	9171	

**Table 4**  
**Summary of Liquids Shipped to**  
**Legacy**  
**(January 01, 2021 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

2/26/2021	3,048	9186	
2/26/2021	2,667	9185	
2/27/2021	3,048	9183	
2/27/2021	3,024	9184	
2/28/2021	2,684	9128	
2/28/2021	3,600	9127	
2/28/2021	2,552	9124	
<b>Total</b>	<b>266,292</b>		



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. **9019**

Job No. 15000

P.O. No. 308734

Trk. No. B-109

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville concord rd  
MAILING ADDRESS the  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME Bill Colonial Direct  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8.		
9. <u>Un, 1993, combustible liquid nos, 3, PC III</u>	<u>2400</u>	
10. <u>contains less than 10% gasoline</u> <u>Emergency Contact Chemtec 1800 262 8200</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name Alan Harris

Signature [Signature]

Shipment Date 020121

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Justin Nusbaum  
b. Phone No. \_\_\_\_\_ c. Truck No. B-109

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. Driver Signature [Signature] Shipment Date 020121

Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT

[Signature]

DATE MONTH 2 DAY 1 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. **9020**  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (if different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8. <u>UN 1993 Combustible Liquids NOS, 3, PG 111</u>				
9. <u>(contains less than 10% gasoline)</u>	→	3612	→	3612
10.				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Adam Harris  
Generator Authorized Agent Name

\* [Signature]  
Signature

020121  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. VT-12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 020121  
Driver Signature Shipment Date

[Signature] [Date]  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT

[Signature]

DATE MONTH 2 DAY 1 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. 9021  
 Job No. 15000  
 P.O. No. 308734  
 Trk. No. ✓ T-17

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
 NAME Colonial Pipeline  
 ORIGINATING ADDRESS \_\_\_\_\_  
 MAILING ADDRESS \_\_\_\_\_  
 CITY Huntersville STATE NC ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_  
 DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
 Bill To (If different from information at left)  
 NAME Bill Colonial direct  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>Un 1993 Combustible liquid Nos. 3, PG III</u>	<u>8268</u>	
9. <u>(contains less than 10% gasoline)</u>		
10.		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations, AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Alan Harris  
 Generator Authorized Agent Name

[Signature]  
 Signature

020121  
 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
 b. Phone No. \_\_\_\_\_ c. Truck No. VT-17  
 Hazardous Waste Transporter Permits  
 EPA NCD062536222  
[Signature]  
 Driver Signature

e. Name \_\_\_\_\_  
 f. Address \_\_\_\_\_  
 g. Driver Name/Title \_\_\_\_\_  
 h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_  
 \_\_\_\_\_  
 Driver Signature

020121  
 Shipment Date

\_\_\_\_\_  
 Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
3637 N. Graham Street  
 Physical Address: Charlotte, NC 28206

a. Phone No. 704-361-5837  
 b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space  
 This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 1 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9022  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd.  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

DESCRIPTION	SOLIDS		GALLONS		DRUMS		LINE TOTAL
	QUANTITY		QUANTITY		QUANTITY		
1. NON-HAZ MINERAL OIL FOR RECYCLE							
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA							
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS							
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA							
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY							
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH							
7.							
8. <u>UN 1993 Combustible liquid NOS, 3, PG 111</u>		→		2814		→	2814
9. <u>(contains less than 10% gasoline</u>							
10.							

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Adam Harris  
Generator Authorized Agent Name

\* [Signature]  
Signature

020121  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. VT12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature]  
Driver Signature

020121  
Shipment Date

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
3637 N. Graham Street  
Physical Address: Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT Jeff Nester DATE MONTH 2 DAY 1 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. **9029**  
Job No. 15000  
P.O. No. 308734  
Trk. No. UT12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>Colonial Pipeline</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 Huntersville Concord Rd.</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____		CITY _____ STATE _____ ZIP _____	
PHONE NO. _____		PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
	SOLIDS	GALLONS	DRUMS	
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8. <u>UN 1993 Combustible Liquid NOS 3, PG111</u>	→	3696	→	3696
9. <u>(contains less than 10% gasoline)</u>				
10.				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Adam Harris Generator Authorized Agent Name      \* [Signature] Shipper Signature      020121 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237		<b>TRANSPORTER II</b>	
a. Driver Name/Title <u>Brandon Eddins</u>		e. Name _____	
b. Phone No. _____	c. Truck No. <u>UT12</u>	f. Address _____	
Hazardous Waste Transporter Permits EPA NCD062536222		g. Driver Name/Title _____	
d. <u>[Signature]</u> Driver Signature	<u>020121</u> Shipment Date	h. Phone No. _____	i. Truck No. _____
		j. Transporter II Permit Nos. _____	
		_____ Driver Signature	_____ Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>		a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>		b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>		<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT Jeff Hudson      DATE MONTH 2 DAY 1 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 8953

Job No. 15000

P.O. No. 308734

Trk. No. VT-17

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14008 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME Bill Colonial Direct  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
	SOLIDS	GALLONS	DRUMS	
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8. <u>UN 1993 Combustible liquid NOS, 3, PG III</u>				
9. <u>(contain less than 10% gasoline)</u>				
10.				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
Generator Authorized Agent Name

[Signature]  
Signature

020221  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
b. Phone No. \_\_\_\_\_ c. Truck No. VT-17

e. Name \_\_\_\_\_

f. Address \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

g. Driver Name/Title \_\_\_\_\_

h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_

d. [Signature] 020221  
Driver Signature Shipment Date

j. Transporter II Permit Nos. \_\_\_\_\_

[Signature] \_\_\_\_\_  
Driver Signature Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment and separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT John Nussbaum DATE MONTH 2 DAY 2 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. 8979  
 Job No. 15000  
 P.O. No. 308734  
 Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

#### GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
 NAME Colonial Pipeline  
 ORIGINATING ADDRESS 14108 Huntersville concord rd  
 MAILING ADDRESS \_\_\_\_\_  
 CITY Huntersville STATE NC ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_  
 DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
 Bill To (If different from information at left)  
 NAME Bill Colonial Direct  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

#### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
	SOLIDS	GALLONS	DRUMS	
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8.				
9. <u>UN 1993 <del>liquid</del> Combustible liquid NOS, 3, PG III →</u>		<u>2772</u>		<u>2772</u>
10. <u>(contains less than 10% gasoline)</u>				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Alan Harris  
 Generator Authorized Agent Name

[Signature]  
 Signature  
 Shipment Date: 020221

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete i-m)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandan Eddins  
 b. Phone No. \_\_\_\_\_ c. Truck No. UT12

e. Name \_\_\_\_\_  
 f. Address \_\_\_\_\_  
 g. Driver Name/Title \_\_\_\_\_  
 h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
 EPA NCD062536222

d. [Signature]  
 Driver Signature  
 Shipment Date: 020221

Driver Signature \_\_\_\_\_  
 Shipment Date \_\_\_\_\_

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
 Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
 b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space \_\_\_\_\_

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT John Nurbaum DATE MONTH 2 DAY 2 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9024  
Job No. 15000  
P.O. No. 308734  
Trk. No. UT 12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

GENERATOR LOCATION		WORK CONTRACTED BY	
NAME <u>Colonial Pipeline</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 Huntersville Concord Rd.</u>	NAME _____	ADDRESS _____	
MAILING ADDRESS _____	CITY _____	STATE _____	ZIP _____
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____	PHONE NO. _____	CONTACT NAME _____	
PHONE NO. _____	DES. OF WASTE: _____		

### Section II. INVOICE INFORMATION

DESCRIPTION	QUANTITY		LINE TOTAL
	SOLIDS	GALLONS DRUMS	
1. NON-HAZ MINERAL OIL FOR RECYCLE			
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA			
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS			
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA			
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY			
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH			
7.			
8. <u>UN 1993 Combustible Liquid NOS, 3 PG III</u>	<u>→</u>	<u>3612</u>	<u>→ 3612</u>
9. <u>(Contains less than 10% gasoline)</u>			
10.			

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Alan Sachs Generator Authorized Agent Name      \* [Signature] Signature      020321 Shipment Date

### Section III. TRANSPORTER (Transporter (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandon Eddins

b. Phone No. \_\_\_\_\_ c. Truck No. UT-12

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] Driver Signature      020312 Shipment Date

e. Name \_\_\_\_\_

f. Address \_\_\_\_\_

g. Driver Name / Title \_\_\_\_\_

h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_

j. Transporter II Permit Nos. \_\_\_\_\_

\_\_\_\_\_ Driver Signature      \_\_\_\_\_ Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.      a. Phone No. 704-361-5837

Physical Address: 3637 N. Graham Street      b. Mailing Address: P.O. Box 37333

Charlotte, NC 28206      Charlotte, NC 28237

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT Jeff Newman      DATE \_\_\_\_\_ MONTH 2 DAY 3 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9023  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT-17

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
Bill To (if different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
	SOLIDS	GALLONS	DRUMS	
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8. <u>UN1993 Combustible liquid Nos, 3, PG II</u>		<u>2989</u>		
9. <u>(contains less than 10% gasoline)</u>				
10.				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

*Adam Harris*  
Generator Authorized Agent Name

*[Signature]*  
Signature

020231  
Shipment Date

### Section III. TRANSPORTER (Transporter I complete a-d; Transporter II complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
b. Phone No. \_\_\_\_\_ c. Truck No. VT-17

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

*[Signature]*  
Driver Signature  
020231  
Shipment Date

*[Signature]*  
Driver Signature  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT *[Signature]* DATE MONTH 2 DAY 3 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9026

Job No. 15000

P.O. No. 308734

Trk. No. UT 12

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd.  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY		LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE			
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA			
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS			
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA			
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY			
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH			
7.			
8. <u>UN 1993 Combustible Liquids NOS, 3, PG111</u>	→	<u>2,940</u>	→ <u>2,940</u>
9. <u>(containers less than 10% gasoline)</u>			
10.			

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Adam Harris  
Generator Authorized Agent Name

\* [Signature]  
Signature

020321  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. UT 12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 020321  
Driver Signature Shipment Date

[Signature] [ ] [ ] [ ] [ ] [ ]  
Driver Signature Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space \_\_\_\_\_

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 3 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9025

Job No. 15000

P.O. No. 308734

Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>	<b>WORK CONTRACTED BY</b>
NAME <u>Colonial Pipeline</u>	Bill To (If different from information at left)
ORIGINATING ADDRESS <u>14108 Huntersville Concord Rd.</u>	NAME _____
MAILING ADDRESS _____	ADDRESS _____
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____
CONTACT NAME _____	CONTACT NAME _____
DES. OF WASTE: _____	

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993 Combustible Liquid NOS, 3, PG III</u>	<u>2520</u>	<u>2520</u>
9. <u>(Contains less than 10% gasoline)</u>		
10.		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* John Harris  
Generator Authorized Agent Name

\* [Signature]  
Signature

020421  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. VT12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 020421  
Driver Signature Shipment Date

\_\_\_\_\_  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
3637 N. Graham Street  
Physical Address: Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 4 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9027  
Job No. 15000  
P.O. No. 308734  
Trk. No. UT 12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>	<b>WORK CONTRACTED BY</b>
NAME <u>Colonial Pipeline</u>	Bill To (If different from information at left)
ORIGINATING ADDRESS <u>14108 Huntersville Concord Rd.</u>	NAME _____
MAILING ADDRESS _____	ADDRESS _____
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____
CONTACT NAME _____	CONTACT NAME _____
DES. OF WASTE: _____	

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993 Combustible Liquids NOS, 3, PG111 →</u>	<u>3150</u>	<u>3150</u>
9. <u>(contains less than 10% gasoline)</u>		
10.		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Jamie Lollis Generator Authorized Agent Name  
 \* [Signature] Signature  
020521 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237	<b>TRANSPORTER II</b>
a. Driver Name/Title <u>Brandon Eddins</u>	e. Name _____
b. Phone No. _____ c. Truck No. <u>VT-12</u>	f. Address _____
Hazardous Waste Transporter Permits EPA NCD062536222	g. Driver Name/Title _____
d. <u>[Signature]</u> <u>020521</u> Shipment Date	h. Phone No. _____ i. Truck No. _____
Driver Signature	j. Transporter II Permit Nos. _____
	_____ Driver Signature
	_____ Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT Jeff Aurbach DATE MONTH 2 DAY 5 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9028

Job No. 15000

P.O. No. 309734

Trk. No. UT 17

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd.  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993 Combustible Liquid NOS 3 PG111</u> →	<u>3150</u>	<u>3150</u>
9. <u>(Contains less than 10% gasoline)</u>		
10.		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Jamie Lollis  
Generator Authorized Agent Name

\* [Signature]  
Signature

020521  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. UT 17

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 020521  
Driver Signature Shipment Date

[Signature] \_\_\_\_\_  
Driver Signature Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e. Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 5 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 7456  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT-14

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>	<b>WORK CONTRACTED BY</b>
NAME <u>Colonial Pipeline</u>	Bill To (if different from information at left)
ORIGINATING ADDRESS <u>1410 Huntersville Concord Rd</u>	NAME _____
MAILING ADDRESS _____	ADDRESS _____
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____
CONTACT NAME _____	CONTACT NAME _____
DES. OF WASTE: _____	

### Section II. INVOICE INFORMATION **TONS GALLONS DRUMS**

DESCRIPTION	QUANTITY			LINE TOTAL
	TONS	GALLONS	DRUMS	
1. VACUUM TRUCK SERVICE - 3700 CFM				
2. NON-HAZ MINERAL OIL FOR RECYCLE				
3. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
4. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
5. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
6. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
7. LIQUIDS REMOVED FROM CAR WASH				
8. SOLIDS REMOVED FROM CAR WASH				
9. <u>UN 1993 Combustible liquid, NOS, 3, PG III</u>		<u>2800</u>		
10. <u>contains less than 10% gasoline</u>				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris Generator Authorized Agent Name      [Signature] Signature      020521 Shipment Date

### Section III. TRANSPORTER TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237	<b>TRANSPORTER II</b>
a. Driver Name/Title <u>Jason Spenser</u>	e. Name _____
b. Phone No. _____ c. Truck No. <u>VT-14</u>	f. Address _____
Hazardous Waste Transporter Permits EPA NCD062536222	g. Driver Name/Title _____
d. <u>[Signature]</u> <u>020521</u> Shipment Date	h. Phone No. _____ i. Truck No. _____
Driver Signature	j. Transporter II Permit Nos. _____
	Driver Signature _____ Shipment Date _____

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature]      DATE      MONTH 2      DAY 5      YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9030  
Job No. 15100  
P.O. No. 308734  
Trk. No. VT-17

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

GENERATOR LOCATION  
NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

WORK CONTRACTED BY  
Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible liquid, NOS. 3, PG III</u>	<u>3360</u>	<u>5360</u>
9. <u>contains less than 10% gasoline</u>		
10.		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis  
Generator Authorized Agent Name

Jamie Lollis  
Signature

020621  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. VT-17

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 020621  
Driver Signature Shipment Date

[Signature] [ ] [ ] [ ] [ ] [ ]  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space \_\_\_\_\_  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 6 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9031

Job No. 15000

P.O. No. 308734

Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 7408 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993 Combustible liquid, NOS 3, PG III</u>	<u>2222</u>	
9. <u>contains less than 10% gasoline</u>		
10.		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis  
Generator Authorized Agent Name

[Signature]  
Signature

020621  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
b. Phone No. \_\_\_\_\_ c. Truck No. VT12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

[Signature]  
Driver Signature

020621  
Shipment Date

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e. Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT

[Signature]

DATE

MONTH 2

DAY 6

YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9032

Job No. 15000

P.O. No. 308734

Trk. No. VT 14

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Hunters v. 14 (Concord NC)  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993 combustible liquid, NOS. 3, P6TH</u>	<u>2700</u>	<u>2700</u>
9. <u>contains less than 10% gasoline</u>		
10.		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis  
Generator Authorized Agent Name

J. Lollis  
Signature

020621  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Brandon Edlins

b. Phone No. \_\_\_\_\_ c. Truck No. VT14

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. B. Edlins  
Driver Signature

020621  
Shipment Date

e. Name \_\_\_\_\_

f. Address \_\_\_\_\_

g. Driver Name/Title \_\_\_\_\_

h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_

j. Transporter II Permit Nos. \_\_\_\_\_

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space.

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT

J. A. Neubaum

DATE MONTH 2 DAY 6 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9033  
Job No. 15000  
P.O. No. 308734  
Trk. No. \_\_\_\_\_

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd.  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8. <u>UN 1993 Combustible Liquids NOS, 3, PG III</u>	<u>→</u>	<u>3696</u>	<u>→</u>	<u>3696</u>
9. <u>(Contains less than 10% gasoline)</u>				
10.				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Jamie Lollis  
Generator Authorized Agent Name

\* [Signature]  
Signature

020621  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Brandon Eddins

b. Phone No. \_\_\_\_\_ c. Truck No. VT17

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 020621  
Driver Signature Shipment Date

e. Name \_\_\_\_\_

f. Address \_\_\_\_\_

g. Driver Name/Title \_\_\_\_\_

h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_

j. Transporter II Permit Nos. \_\_\_\_\_

\_\_\_\_\_  
Driver Signature 020621  
Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space \_\_\_\_\_

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT J.P. Niskaem DATE MONTH 2 DAY 6 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9034

Job No. 15000

P.O. No. 308734

Trk. No. UT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd.  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8. <u>UN 1993 Combustible liquids NOS, 3, PG 111</u>	<u>→</u>	<u>2562</u>	<u>→</u>	<u>2562</u>
9. <u>(contains less than 10% gasoline)</u>				
10.				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Jamie Lollis  
Generator Authorized Agent Name

\* [Signature]  
Signature

020621  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
b. Phone No. \_\_\_\_\_ c. Truck No. UT12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature]  
Driver Signature

020621  
Shipment Date

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space \_\_\_\_\_

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 6 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. 9037

Job No. 15000

P.O. No. 308734

Trk. No. VT-13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b> NAME <u>Colonial Pipeline</u> ORIGINATING ADDRESS <u>14108 Huntersville Concord Rd</u> MAILING ADDRESS _____ CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____ PHONE NO. _____ CONTACT NAME _____ DES. OF WASTE: _____		<b>WORK CONTRACTED BY</b> Bill To (If different from information at left) NAME _____ ADDRESS _____ CITY _____ STATE _____ ZIP _____ PHONE NO. _____ CONTACT NAME _____	
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### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8. <u>UN 1993 Combustible liquid NOS 3 PG111</u>	<u>-7</u>	<u>4176</u>		<u>4176</u>
9. <u>Contains less than 10% gasoline</u>				
10.				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis

Generator Authorized Agent Name

Jamie Lollis  
Signature

020721

Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Craig Lynch  
 b. Phone No. \_\_\_\_\_ c. Truck No. VT-13

e. Name \_\_\_\_\_  
 f. Address \_\_\_\_\_  
 g. Driver Name/Title \_\_\_\_\_  
 h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
 EPA NCD062536222

d. Craig Lynch  
 Driver Signature 020721  
 Shipment Date

\_\_\_\_\_  
 Driver Signature \_\_\_\_\_  
 Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
 Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
 b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space.

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT JH Newbern DATE MONTH 2 DAY 9 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. **9038**

Job No. **15000**

P.O. No. **308734**

Trk. No. **VT-14 0845**

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b> NAME <u>Colonial Pipeline</u> ORIGINATING ADDRESS <u>1710 Huntersville Concord Rd</u> MAILING ADDRESS _____ CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____ PHONE NO. _____ CONTACT NAME _____ DES. OF WASTE: _____	<b>WORK CONTRACTED BY</b> Bill To (If different from information at left) NAME _____ ADDRESS _____ CITY _____ STATE _____ ZIP _____ PHONE NO. _____ CONTACT NAME _____
---	--

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.	<b>2800</b>	
9. (Contains less than 10 percent diesel fuel), in		
10. 3, PG III <u>gasoline</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris Generator Authorized Agent Name  
[Signature] Signature  
 020821 Shipment Date

### Section III. TRANSPORTER (Transporter I complete a-d; Transporter II complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237  a. Driver Name/Title <u>Craig Lynch</u> b. Phone No. <u>980323-7536</u> c. Truck No. <u>VT-14</u> Hazardous Waste Transporter Permits EPA NCD062536222 d. <u>[Signature]</u> Driver Signature 020821 Shipment Date	<b>TRANSPORTER II</b> e. Name _____ f. Address _____ g. Driver Name/Title _____ h. Phone No. _____ i. Truck No. _____ j. Transporter II Permit Nos. _____ _____ Driver Signature _____ Shipment Date
---	---

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u> Physical Address: <u>3637 N. Graham Street</u> <u>Charlotte, NC 28206</u>	a. Phone No. <u>704-361-5837</u> b. Mailing Address: <u>P.O. Box 37333</u> <u>Charlotte, NC 28237</u>
---	---

e: Discrepancy Indication Space  
 This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 8 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9039

Job No. 15000

P.O. No. 308734

Trk. No. VT-13 0915

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 1410 Huntersville-Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>3698</u>	
9. <u>(Contains less than 1 percent diesel fuel),</u>		
10. <u>3, PG III</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
Generator Authorized Agent Name

[Signature]  
Signature

020821  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
b. Phone No. 956-532-2021 c. Truck No. VT-13

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 020821  
Driver Signature Shipment Date

[Signature] \_\_\_\_\_  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 8 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. **9040**

Job No. **15000**

P.O. No. **308734**

Trk. No. **VT-17 1019**

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 1410 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
	SOLIDS	GALLONS	DRUMS	
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>				
9. <u>(Contains less than 10 percent diesel fuel, gas oil)</u>		<u>3654</u>		
10. <u>3, PG III</u>				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis

Generator Authorized Agent Name

[Signature]

Signature

020821

Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. UT 17

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature]

020821

Shipment Date

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Driver Signature

[Signature]

Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT

[Signature]

DATE

MONTH 2

DAY 8

YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9041

Job No. 15000

P.O. No. 308734

Trk. No. VT-14 1042

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
NAME Colonial Pipeline  
ORIGINATING ADDRESS 1410 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>		
9. <u>(Contains less than 10 percent diesel fuel),</u>	<u>2600</u>	
10. <u>3, PG III gasoline</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
Generator Authorized Agent Name

[Signature]  
Signature

020821  
Shipment Date

### Section III. TRANSPORTER TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Craig Lynch  
b. Phone No. 980-333-7336 c. Truck No. VT-14

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD082336222

[Signature]  
Driver Signature 020821  
Shipment Date

\_\_\_\_\_  
Driver Signature \_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 8 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. 9042

Job No. 15000

P.O. No. 308734

Trk. No. VT-12 1146

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
 NAME Colonial Pipeline  
 ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
 MAILING ADDRESS \_\_\_\_\_  
 CITY Huntersville STATE NC ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_  
 DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
 Bill To (If different from information at left)  
 NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.		
9. (Contains less than 10 percent diesel fuel,	3780	
10. 3, PG III gasoline		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

*Adam Hous*  
 Generator Authorized Agent Name

*[Signature]*  
 Signature

020821  
 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
 b. Phone No. 956-532-2021 c. Truck No. VT-12

e. Name \_\_\_\_\_  
 f. Address \_\_\_\_\_  
 g. Driver Name/Title \_\_\_\_\_  
 h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
 EPA NCD062536222

*[Signature]*  
 Driver Signature

020821  
 Shipment Date

\_\_\_\_\_  
 Driver Signature

\_\_\_\_\_  
 Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
 Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
 b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT J.A. Hudson DATE MONTH 2 DAY 8 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9043

Job No. 15000

P.O. No. 308734

Trk. No. V773 - 1345

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.	<u>4100</u>	
9. (Contains less than 10 percent diesel fuel, gas, and)		
10. 3, PG III		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis  
Generator Authorized Agent Name

[Signature]  
Signature

020821  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Craig Lynch  
b. Phone No. 980 333 7536 c. Truck No. V773

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name / Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 020821  
Driver Signature Shipment Date

\_\_\_\_\_ \_\_\_\_\_  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 8 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9044

Job No. 15000

P.O. No. 308734

Trk. No. VT-13 1426

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>	<b>WORK CONTRACTED BY</b>
NAME <u>Colonial Pipeline</u>	Bill To (If different from information at left)
ORIGINATING ADDRESS <u>14108 Huntersville Concord Rd</u>	NAME _____
MAILING ADDRESS _____	ADDRESS _____
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____
CONTACT NAME _____	CONTACT NAME _____
DES. OF WASTE: _____	

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.		
9. (Contains less than 10 percent diesel fuel) <u>gasoline</u> →	<u>3486</u>	
10. 3, PG III		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis Generator Authorized Agent Name      [Signature] Signature      020821 Shipment Date

### Section III. TRANSPORTER (Transporter complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237	<b>TRANSPORTER II</b>
a. Driver Name/Title <u>Eliseo Negra</u>	e. Name _____
b. Phone No. <u>956 532 2021</u> c. Truck No. <u>VT-13</u>	f. Address _____
Hazardous Waste Transporter Permits EPA NCD062538222	g. Driver Name / Title _____
<u>[Signature]</u> Driver Signature <u>020821</u> Shipment Date	h. Phone No. _____ i. Truck No. _____
	j. Transporter II Permit Nos. _____
	_____ Driver Signature      _____ Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e. Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature]      DATE MONTH 2 DAY 8 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9047

Job No. 15000

P.O. No. 308734

Trk. No. VT-13 0915

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.		
9. (Contains less than 1% percent diesel fuel)		
10. 3, PG III <u>3, PG III</u>	<u>3698</u>	<u>3698</u>

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Jamie Lollis  
Generator Authorized Agent Name

\* [Signature]  
Signature

020921  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. VT 13

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 020921  
Driver Signature Shipment Date

[Signature] \_\_\_\_\_  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e. Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 9 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. 9048

Job No. 15000

P.O. No. 308734

Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>Colonial Pipeline</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>24105 Huntersville Concourse</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>Huntersville</u>	STATE <u>NC</u>	ZIP _____	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____		
CONTACT NAME _____	CONTACT NAME _____		
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>2458</u>	
9. <u>(Contains less than 10 percent diesel fuel),</u>		
10. <u>3, PG III gasoline</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Jamie Lollis Generator Authorized Agent Name      \* [Signature] Signature      020921 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237		<b>TRANSPORTER II</b>	
a. Driver Name/Title <u>Brandon Eddins</u>	e. Name _____	f. Address _____	
b. Phone No. _____ c. Truck No. <u>VT12</u>	g. Driver Name/Title _____	h. Phone No. _____ i. Truck No. _____	
Hazardous Waste Transporter Permits EPA NCD062536222	j. Transporter II Permit Nos. _____		
d. <u>[Signature]</u> <u>020921</u> Shipment Date	Driver Signature _____	Shipment Date _____	

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space \_\_\_\_\_  
 This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature]      DATE      MONTH 2      DAY 9      YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9049

Job No. 15000

P.O. No. 308734

Trk. No. VT 14 1450

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville-Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8.		
9. <u>UN 1993, Combustible Liquids, N.O.S.</u>		
10. <u>(Contains less than 10 percent diesel fuel), 3, PG III gasoline</u>	<u>2127</u>	<u>2127</u>

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations, AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Hollis  
Generator Authorized Agent Name

Jamie Hollis  
Signature

020921  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. VT14

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 020921  
Driver Signature Shipment Date

[Signature] \_\_\_\_\_  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space.  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 9 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9050

Job No. 15000

P.O. No. 308734

Trk. No. VT 12 1147

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>Colonial Pipeline</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 Huntersville Concord Rd.</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____	CITY _____ STATE _____ ZIP _____	PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY		LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE			
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA			
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS			
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA			
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY			
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH			
7. <u>UN 1993, Combustible Liquids, N.O.S.</u>			
8. <u>(Contains less than 10 percent diesel fuel)</u>			
9. <u>3, PG III gasoline</u>		<u>3363</u>	<u>→ 3363</u>
10.			

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris Generator Authorized Agent Name      [Signature] Signature      021021 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237		<b>TRANSPORTER II</b>	
a. Driver Name/Title <u>Brandon Eddins</u>	e. Name _____	f. Address _____	
b. Phone No. _____ c. Truck No. <u>VT 12</u>	g. Driver Name/Title _____	h. Phone No. _____ i. Truck No. _____	
Hazardous Waste Transporter Permits EPA NCD062536222	j. Transporter II Permit Nos. _____		
d. <u>[Signature]</u> Driver Signature <u>021021</u> Shipment Date	_____ Driver Signature	_____ Shipment Date	

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature]      DATE MONTH 2 DAY 10 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9051

Job No. 15000

P.O. No. 308734

Trk. No. UT13 9:4

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>Colonial Pipeline</u>		Bill To (if different from information at left)	
ORIGINATING ADDRESS <u>19108 Huntersville Concord Rd.</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____		CITY _____ STATE _____ ZIP _____	
PHONE NO. _____		PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY		LINE TOTAL
	SOLIDS	GALLONS	
1. NON-HAZ MINERAL OIL FOR RECYCLE			
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA			
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS			
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA			
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY			
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH			
7. <u>UN 1993, Combustible Liquids, N.O.S.</u>			
8. <u>(Contains less than 10 percent diesel fuel),</u>			
9. <u>3, PG III gasoline</u>		<u>3948</u>	<u>3948</u>
10. _____			

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Adam Harris  
Generator Authorized Agent Name

\* [Signature]  
Signature

021021  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. UT13

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 021021  
Driver Signature Shipment Date

\_\_\_\_\_  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 10 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9052  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>Colonial Pipeline</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 Huntersville Concord Rd</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____		CITY _____ STATE _____ ZIP _____	
PHONE NO. _____		PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7. _____		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>		
9. <u>(Contains less than 10 percent diesel fuel),</u>		
10. <u>3, PG III gasoline</u>	<u>3444</u>	<u>3444</u>

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

<u>Adm. Harris</u> Generator Authorized Agent Name	<u>[Signature]</u> Signature	<u>021121</u> Shipment Date
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### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-j)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237		<b>TRANSPORTER II</b>	
a. Driver Name/Title <u>Brandon Eddins</u>	e. Name _____	f. Address _____	
b. Phone No. _____	g. Driver Name/Title _____	h. Phone No. _____	
c. Truck No. <u>VT-12</u>	i. Truck No. _____	j. Transporter II Permit Nos. _____	
Hazardous Waste Transporter Permits EPA NCD062536222	d. <u>[Signature]</u> Driver Signature	<u>021121</u> Shipment Date	<u>[Signature]</u> Driver Signature

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT <u>[Signature]</u>	DATE MONTH <u>2</u> DAY <u>11</u> YEAR <u>21</u>
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# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9053  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT-13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>Colonial Pipeline</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 Huntersville Concord Rd</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____	CITY _____ STATE _____ ZIP _____	PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	DRUMS	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE			
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA			
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS			
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA			
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY			
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH			
7.			
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>	<u>3649</u>	<u>→</u>	<u>3649</u>
9. <b>(Contains less than 10 percent diesel fuel),</b>			
10. <b>3, PG III gasoline</b>			

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris Generator Authorized Agent Name      [Signature] Signature      021121 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237		<b>TRANSPORTER II</b>	
a. Driver Name/Title <u>Brandon Griffin</u>	e. Name <u>Jason Spencer Legacy Env</u>	f. Address _____	
b. Phone No. _____ c. Truck No. <u>VT-13</u>	g. Driver Name/Title <u>Jason Spencer</u>	h. Phone No. _____ i. Truck No. <u>VT-13</u>	
Hazardous Waste Transporter Permits EPA NCD062536222	j. Transporter II Permit Nos. _____	_____	
d. <u>[Signature]</u> Driver Signature <u>021121</u> Shipment Date	<u>[Signature]</u> Driver Signature	<u>021121</u> Shipment Date	

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space.  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 11 YEAR 21

# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. 9054

Job No. 15000

P.O. No. 308734

Trk. No. VT-13

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
 ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
 MAILING ADDRESS \_\_\_\_\_  
 CITY Huntersville STATE NC ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_  
 DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY		LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE			
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA			
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS			
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA			
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY			
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH			
7.			
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>			
9. <b>(Contains less than 10 percent diesel fuel),<sup>TM</sup></b>		<u>3531</u>	<u>3531</u>
10. <b>3, PG III</b>			

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Adam Harris  
 Generator Authorized Agent Name

\* [Signature]  
 Signature

021221  
 Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237

a. Driver Name/Title Brandon Eddins  
 b. Phone No. \_\_\_\_\_ c. Truck No. VT-13

Hazardous Waste Transporter Permits  
 EPA NCD062536222

d. [Signature] 021221  
 Driver Signature Shipment Date

#### TRANSPORTER II

e. Name \_\_\_\_\_  
 f. Address \_\_\_\_\_  
 g. Driver Name/Title \_\_\_\_\_  
 h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_

\_\_\_\_\_  
 Driver Signature 021221  
 Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
3637 N. Graham Street  
 Physical Address: Charlotte, NC 28206

a. Phone No. 704-361-5837  
P.O. Box 37333  
 b. Mailing Address: Charlotte, NC 28237

#### e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 12 YEAR 20



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9055

Job No. 15000

P.O. No. 308734

Trk. No. B-109

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>1342</u>	<u>1342</u>
9. <u>(Contains less than 10 percent diesel fuel)</u>		
10. <u>3, PG III</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Adam Harris  
Generator Authorized Agent Name

\* [Signature]  
Signature

0211221  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Jeff Nusbaum  
b. Phone No. 803 415 7241 c. Truck No. B-109

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. J.A. Nusbaum  
Driver Signature

0211221  
Shipment Date

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT J.A. Nusbaum DATE MONTH 2 DAY 12 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. 9056

Job No. 15000

P.O. No. 308734

Trk. No. \_\_\_\_\_

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b> NAME <u>Colonial Pipeline</u> ORIGINATING ADDRESS <u>14108 Huntersville - Concord Rd</u> MAILING ADDRESS _____ CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____ PHONE NO. _____ CONTACT NAME _____ DES. OF WASTE: _____	<b>WORK CONTRACTED BY</b> Bill To (If different from information at left) NAME _____ ADDRESS _____ CITY _____ STATE _____ ZIP _____ PHONE NO. _____ CONTACT NAME _____
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### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>		<b>3574</b>		
9. <b>(Contains less than 1 percent diesel fuel)</b>				
10. <b>3, PG III gasoline</b>				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name	Signature	Shipment Date
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### Section III. TRANSPORTER (Transporter (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n))

<p style="text-align: center;"><b>Legacy</b>          ENVIRONMENTAL SERVICES, LLC          P.O. BOX 37333 • CHARLOTTE, N.C. 28237</p> <p>a. Driver Name/Title <u>Alison Heggie</u></p> <p>b. Phone No. <u>704-361-5837</u> c. Truck No. <u>17-12</u></p> <p>Hazardous Waste Transporter Permits          EPA NCD062536222</p> <p>d. <u>[Signature]</u>          Driver Signature</p>	<p style="text-align: center;"><b>TRANSPORTER II</b></p> <p>e. Name _____</p> <p>f. Address _____</p> <p>g. Driver Name/Title _____</p> <p>h. Phone No. _____ i. Truck No. _____</p> <p>j. Transporter II Permit Nos. _____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u> <u>3637 N. Graham Street</u> Physical Address: <u>Charlotte, NC 28206</u>	a. Phone No. <u>704-361-5837</u> b. Mailing Address: <u>P.O. Box 37333</u> <u>Charlotte, NC 28237</u>
---	---

e. Discrepancy Indication Space  
 This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT <u>[Signature]</u>	DATE	MONTH <u>2</u>	DAY <u>16</u>	YEAR <u>21</u>
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# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9057

Job No. 15000

P.O. No. 308734

Trk. No. \_\_\_\_\_

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>Colonial Pipeline</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 Huntersville Concord Rd</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>Huntersville</u>	STATE <u>NC</u>	CITY _____	STATE _____ ZIP _____
PHONE NO. _____		PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.		
9. (Contains less than <u>10</u> percent diesel fuel) <u>3532</u>	<u>3532</u>	<u>Gal.</u>
10. 3, PG III <u>3532</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

X Adam Harris
X Al C...
021521

Generator Authorized Agent Name Signature Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237		<b>TRANSPORTER II</b>	
a. Driver Name/Title <u>Viktor Busch</u>	e. Name _____	f. Address _____	
b. Phone No. <u>2602370027</u>	g. Driver Name/Title _____	h. Phone No. _____ i. Truck No. _____	
c. Truck No. <u>VT13</u>	j. Transporter II Permit Nos. _____	_____	
Hazardous Waste Transporter Permits EPA NCD062536222	d. <u>Viktor Busch</u>	_____	
	<span style="border: 1px solid black; padding: 2px;">021521</span>	<span style="border: 1px solid black; display: inline-block; width: 100px; height: 20px;"></span>	
	Driver Signature	Shipment Date	

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e. Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT <u>Al...</u>	DATE	MONTH <u>2</u>	DAY <u>15</u>	YEAR <u>21</u>
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# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. 9058

Job No. 15000

P.O. No. 308734

Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
 ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
 MAILING ADDRESS \_\_\_\_\_  
 CITY Huntersville STATE NC ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_  
 DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>		
9. <b>(Contains less than 10 percent diesel fuel),</b>		
10. <b>3, PG III Gasoline</b>	<u>3532</u>	

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
 Generator Authorized Agent Name

[Signature]  
 Signature

02/15/21  
 Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
 b. Phone No. 9565322021 c. Truck No. VT-12

e. Name \_\_\_\_\_  
 f. Address \_\_\_\_\_  
 g. Driver Name/Title \_\_\_\_\_  
 h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
 EPA NCP062536222

[Signature]  
 Driver Signature

02/15/21  
 Shipment Date

\_\_\_\_\_  
 Driver Signature

\_\_\_\_\_  
 Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
 Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
 b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT

[Signature]

DATE MONTH 2 DAY 15 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9060

Job No. 15000

P.O. No. 308734

Trk. No. VT-17

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY			LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7.				
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>				
9. <b>(Contains less than 10 percent diesel fuel).</b>				
10. <b>3, PG III gasoline</b>			<u>3533</u>	

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
Generator Authorized Agent Name

[Signature]  
Signature

021521  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
b. Phone No. 9565322021 c. Truck No. VT-17

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

[Signature]  
Driver Signature

021521  
Shipment Date

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 15 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9061

Job No. 15000

P.O. No. 308734

Trk. No. VT-13

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

#### DESCRIPTION

DESCRIPTION	QUANTITY			LINE TOTAL
	SOLIDS	GALLONS	DRUMS	
1. NON-HAZ MINERAL OIL FOR RECYCLE				
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA				
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY				
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH				
7. _____				
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>				
9. <u>(Contains less than 1.0 percent diesel fuel),</u>				
10. <u>3, PG III gasoline</u>		<u>3740</u>		<u>3740</u>

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

X Adam Harris  
Generator Authorized Agent Name

X [Signature]  
Signature

021521  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
b. Phone No. 9565322021 c. Truck No. VT-13

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 021521  
Driver Signature Shipment Date

\_\_\_\_\_  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 15 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9059

Job No. 15000

P.O. No. 308734

Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY		LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE			
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA			
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS			
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA			
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY			
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH			
7.			
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>			
9. <b>(Contains less than 10 percent diesel fuel),</b>			
10. <b>3, PG III gasoline</b>		<u>3532</u>	<u>3532</u>

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
Generator Authorized Agent Name

[Signature]  
Signature

021621  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title Eliseo Nuyra  
b. Phone No. 956 532 2021 c. Truck No. VT-12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 021621  
Driver Signature Shipment Date

\_\_\_\_\_  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
3637 N. Graham Street  
Physical Address: Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 16 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9062

Job No. 15000

P.O. No. 302734

Trk. No. VT-13

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>Colonial Pipeline</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 Huntersville concord rd</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>Huntersville</u>	STATE <u>NC</u>	CITY _____	STATE _____ ZIP _____
PHONE NO. _____		PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7. _____		
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>		
9. <b>(Contains less than _____ percent diesel fuel),</b>		
10. <b>3, PG III Gasoline</b>	<u>35743573</u>	<u>3573</u>

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state-law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name Adam Harris Signature [Signature] Shipment Date 02/16/21

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

### TRANSPORTER II

a. Driver Name/Title <u>Eliseo Mejia</u>	e. Name _____
b. Phone No. <u>956 532 2021</u>	f. Address _____
c. Truck No. <u>VT-12</u>	g. Driver Name/Title _____
Hazardous Waste Transporter Permits EPA NCD062636222	h. Phone No. _____ i. Truck No. _____
d. Driver Signature <u>[Signature]</u>	j. Transporter II Permit Nos. _____
Shipment Date <u>02/16/21</u>	Driver Signature _____
	Shipment Date _____

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

#### e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT <u>[Signature]</u>	DATE	MONTH <u>2</u>	DAY <u>16</u>	YEAR <u>21</u>
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# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9063

Job No. 15000

P.O. No. 308734

Trk. No. B-109

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
NAME Colonial Pipeline  
ORIGINATING ADDRESS 14109 Huntersville Concord Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY		LINE TOTAL
	SOLIDS	GALLONS	
1. NON-HAZ MINERAL OIL FOR RECYCLE			
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA			
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS			
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA			
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY			
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH			
7.			
8. <u>UN 1993. Combustible Liquids, N.O.S.</u>			
9. <u>(Contains less than 10 percent diesel fuel),</u>			
10. <u>3, PG III gasoline</u>		<u>2287</u>	<u>2287</u>

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Alden Harris  
Generator Authorized Agent Name

[Signature]  
Signature

021621  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Vikter Busch

e. Name \_\_\_\_\_

b. Phone No. \_\_\_\_\_ c. Truck No. B-109

f. Address \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

g. Driver Name/Title \_\_\_\_\_

h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_

d. Vikter Busch  
Driver Signature

021621  
Shipment Date

j. Transporter II Permit Nos. \_\_\_\_\_

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 16 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9064

Job No. ~~308754~~  
15000

P.O. No. JOB 774

Trk. No. 715

## NON-HAZARDOUS SPECIAL WASTE

### Section I.

### GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME Colonial Pipeline  
ORIGINATING ADDRESS 14108 Huntersville Concord Rd.  
MAILING ADDRESS \_\_\_\_\_  
CITY Huntersville STATE NC ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7. _____		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>		
9. <u>(Contains less than 10 percent diesel fuel),</u>	<u>3589</u>	
10. <u>3, PG III gasoline</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Alan Harris  
Generator Authorized Agent Name

\* [Signature]  
Signature

021721  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
b. Phone No. \_\_\_\_\_ c. Truck No. UT 13

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature]  
Driver Signature

021721  
Shipment Date

Driver Signature

Shipment Date

### Section IV.

### FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT

Jeff Neumann

DATE

MONTH

2

DAY

17

YEAR

21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9065  
Job No. 15000  
P.O. No. 308754  
Trk. No. UT-13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP _____	CITY _____ STATE _____ ZIP _____	PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>	<b>3490</b>	
9. <b>(Contains less than 10 percent diesel fuel),</b>		
10. <b>3, PG III GASOLINE</b>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

021721

Generator Authorized Agent Name Signature Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title <u>DAVID HARRIS</u>	e. Name _____
b. Phone No. _____ c. Truck No. <u>UT-17</u>	f. Address _____
Hazardous Waste Transporter Permits EPA NCD062396222	g. Driver Name/Title _____
d. <span style="border: 1px solid black; padding: 2px; margin-left: 20px;">021721</span>	h. Phone No. _____ i. Truck No. _____
Driver Signature <span style="margin-left: 100px;">Shipment Date</span>	j. Transporter II Permit Nos. _____
	<span style="border: 1px solid black; display: inline-block; width: 100px; height: 20px;"></span> <span style="margin-left: 20px;">Shipment Date</span>

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e. Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT 

DATE
MONTH 2
DAY 17
YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9068  
Job No. 15000  
P.O. No. 308704  
Trk. No. UT17

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>	<b>WORK CONTRACTED BY</b>
NAME <u>Colonial Pipeline</u>	Bill To (if different from information at left)
ORIGINATING ADDRESS <u>19108 Huntersville Concord Rd.</u>	NAME _____
MAILING ADDRESS _____	ADDRESS _____
CITY <u>Huntersville</u> STATE <u>NC</u> ZIP _____	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____
CONTACT NAME _____	CONTACT NAME _____
DES. OF WASTE: _____	

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7. _____		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>		
9. <u>(Contains less than 10 percent diesel fuel)</u>	<u>3552</u>	
10. <u>3, PG III gasoline</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

\* Adam Harris Generator Authorized Agent Name      \* [Signature] Signature      021721 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237		<b>TRANSPORTER II</b>	
a. Driver Name/Title <u>Brandon Eddins</u>	e. Name _____	f. Address _____	
b. Phone No. _____ c. Truck No. <u>VT-17</u>	g. Driver Name/Title _____	h. Phone No. _____ i. Truck No. _____	
Hazardous Waste Transporter Permits EPA NCD062536222	j. Transporter II Permit Nos. _____		
d. <u>[Signature]</u> Driver Signature <u>021721</u> Shipment Date	_____ Driver Signature	_____ Shipment Date	

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT J.A. Nurborn      DATE MONTH 2 DAY 17 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9069

Job No. 15000

P.O. No. 308734

Trk. No. VF13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD Rd</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____	PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA	<u>3381</u>	<u>3381</u>
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY	<u>3381</u>	
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7. <u>UN 1993, Combustible Liquids, N.O.S.</u>		
8. <u>(Contains less than 10 percent diesel fuel)</u>		
9. <u>3, PG III GASOLINE</u>		
10.		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Alan Harris  
Generator Authorized Agent Name

[Signature]  
Signature

02/18/21  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title <u>Brandon Eddins</u>	e. Name _____
b. Phone No. _____	f. Address _____
c. Truck No. <u>VT 13</u>	g. Driver Name/Title _____
Hazardous Waste Transporter Permits EPA NCD062536222	h. Phone No. _____ i. Truck No. _____
d. <u>[Signature]</u>	j. Transporter II Permit Nos. _____
<u>021821</u>	_____
Driver Signature	Shipment Date
	_____
	Driver Signature
	Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	<u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	b. Mailing Address: <u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT <u>Jeff Nuckman</u>	DATE	MONTH <u>2</u>	DAY <u>18</u>	YEAR <u>21</u>
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# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9070

Job No. 15000

P.O. No. 308734

Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

#### GENERATOR LOCATION

NAME COLONIAL PIPELINE  
ORIGINATING ADDRESS 14108 HUNTERSVILLE CONCERN Rd  
MAILING ADDRESS \_\_\_\_\_  
CITY HUNTERSVILLE STATE NC ZIP 28078  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

#### WORK CONTRACTED BY

Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA	3376.8	3376.8
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.		
9. (Contains less than 10 percent diesel fuel)		
10. 3, PG III GASOLINE		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
Generator Authorized Agent Name

[Signature]  
Signature

021821  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
b. Phone No. 956 532 2021 c. Truck No. VT-12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 021821  
Driver Signature Shipment Date

\_\_\_\_\_ \_\_\_\_\_  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

#### e. Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 18 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9102  
Job No. 15000  
P.O. No. 308734  
Trk. No. \_\_\_\_\_

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD Rd</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>		CITY _____ STATE _____ ZIP _____	
PHONE NO. _____		PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1850 Corrosive Liquid, NOS</u>	<u>3364.2</u>	
9. <u>Corrosive Liquid, NOS</u>		
10. <u>378 Gasoline</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris Generator Authorized Agent Name      [Signature] Signature      021921 Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Chiseo Mejia

b. Phone No. 956 532 2021 c. Truck No. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536722

d. [Signature] Driver Signature      021921 Shipment Date

e. Name \_\_\_\_\_

f. Address \_\_\_\_\_

g. Driver Name / Title \_\_\_\_\_

h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_

j. Transporter II Permit Nos. \_\_\_\_\_

\_\_\_\_\_  
Driver Signature      \_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature]      DATE      MONTH 2      DAY 19      YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. 9103  
 Job No. 15000  
 P.O. No. 308734  
 Trk. No. VT14

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator completes all of Section I)

GENERATOR LOCATION  
 NAME COLONIAL PIPELINE WORK CONTRACTED BY  
 ORIGINATING ADDRESS 19108 HUNTERSVILLE CONCORS RD Bill To (if different from information at left)  
 MAILING ADDRESS \_\_\_\_\_ NAME \_\_\_\_\_  
 CITY HUNTERSVILLE STATE NC ZIP 28078 ADDRESS \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_ PHONE NO. \_\_\_\_\_ CONTACT NAME \_\_\_\_\_  
 DES. OF WASTE \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA	<u>3</u>	
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Corrosive Liquids N.O.S.	<u>2700</u>	<u>2700</u>
9. (Contains less than 10 percent diesel fuel),		
10. 3, PG III Gasoline		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Kollis Generator Authorized Agent Name  
Jamie Kollis Signature  
021921 Shipment Date

### Section III. TRANSPORTER (Transporter I complete a-d; Transporter II complete e-j)

**Legacy**  
 ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237

a. Driver Name/Title Brian Eddins  
 b. Phone No. \_\_\_\_\_ c. Truck No. VT14  
 Hazardous Waste Transporter Permits  
 EPA NCD062536222

d. [Signature] 021921 Shipment Date  
 Driver Signature Shipment Date

**TRANSPORTER II**  
 e. Name \_\_\_\_\_  
 f. Address \_\_\_\_\_  
 g. Driver Name/Title \_\_\_\_\_  
 h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv. a. Phone No. 704-361-5837  
 Physical Address: 3637 N. Graham Street P.O. Box 37333  
Charlotte, NC 28206 b. Mailing Address: Charlotte, NC 28237

e. Discrepancy Indication Space \_\_\_\_\_  
 This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT J.A. Murrain DATE MONTH 2 DAY 19 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9100  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>	<b>WORK CONTRACTED BY</b>
NAME <u>COLONIAL PIPELINE</u>	Bill To (If different from information at left)
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD Rd</u>	NAME _____
MAILING ADDRESS _____	ADDRESS _____
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28027</u>	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____
CONTACT NAME _____	CONTACT NAME _____
DES. OF WASTE: _____	

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>		
9. <b>(Contains less than 10 percent Diesel fuel)</b>	<u>2550</u>	<u>2550</u>
10. <b>3, PG III GASOLINE</b>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Hollis  
Generator Authorized Agent Name

[Signature]  
Signature

021921  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia

b. Phone No. 956532 2021 c. Truck No. VT12

e. Name \_\_\_\_\_

f. Address \_\_\_\_\_

g. Driver Name/Title \_\_\_\_\_

h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_

j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD962536222

[Signature]  
Driver Signature

021921  
Shipment Date

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.

Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837

b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 19 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9095

Job No. 15000

P.O. No. 308734

Trk. No. VT12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>	<b>WORK CONTRACTED BY</b>
NAME <u>COLONIAL PIPELINE</u>	Bill To (If different from information at left)
ORIGINATING ADDRESS <u>1408 HUNTERSVILLE CONCORD Rd</u>	NAME _____
MAILING ADDRESS _____	ADDRESS _____
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____
CONTACT NAME _____	CONTACT NAME _____
DES. OF WASTE: _____	

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>3368.4</u>	<u>3368.4</u>
9. <u>(Contains less than 10 percent diesel fuel),</u>		
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis  
Generator Authorized Agent Name

[Signature]  
Signature

022021  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Creston Watts

b. Phone No. \_\_\_\_\_ c. Truck No. VT 12

e. Name \_\_\_\_\_

f. Address \_\_\_\_\_

g. Driver Name/Title \_\_\_\_\_

h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_

j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

[Signature]  
Driver Signature

022021  
Shipment Date

Driver Signature \_\_\_\_\_

Shipment Date \_\_\_\_\_

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.

Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837

b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 20 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9099

Job No. 15000

P.O. No. 308734

Trk. No. VT 12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPE LINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD Rd</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>		CITY _____ STATE _____ ZIP _____	
PHONE NO. _____		PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>3175.2</u>	
9. <u>(Contains less than 1% percent diesel fuel),</u>		
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis Generator Authorized Agent Name  
[Signature] Signature  
022021 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title <u>Viktor Busch</u>	e. Name _____
b. Phone No. _____ c. Truck No. <u>VT 12</u>	f. Address _____
Hazardous Waste Transporter Permits EPA NCD062536222	g. Driver Name/Title _____
d. <u>[Signature]</u> <u>022021</u> Shipment Date	h. Phone No. _____ i. Truck No. _____
Driver Signature	j. Transporter II Permit Nos. _____
	Driver Signature _____ Shipment Date _____

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 20 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9094  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT 12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>	<b>WORK CONTRACTED BY</b>
NAME <u>COLONIAL PIPELINE</u>	Bill To (If different from information at left)
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD Rd</u>	NAME _____
MAILING ADDRESS _____	ADDRESS _____
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____
CONTACT NAME _____	CONTACT NAME _____
DES. OF WASTE: _____	

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>3368.4</u>	<u>3368.4</u>
9. <u>(Contains less than 10 percent diesel fuel),</u>		
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis Generator Authorized Agent Name      [Signature] Signature      022221 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237		<b>TRANSPORTER II</b>	
a. Driver Name/Title <u>Cliseo Mejia</u>	e. Name _____	f. Address _____	
b. Phone No. <u>956 532 2021</u> c. Truck No. <u>VT 12</u>	g. Driver Name/Title _____	h. Phone No. _____ i. Truck No. _____	
Hazardous Waste Transporter Permits EPA NCD062336222	j. Transporter II Permit Nos. _____		
d. <u>[Signature]</u> Driver Signature <u>022221</u> Shipment Date	_____ Driver Signature	_____ Shipment Date	

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature]      DATE      MONTH 2      DAY 22      YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9101  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT 13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (if different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____	PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>3360</u>	<u>3360</u>
9. <u>(Contains less than 10 percent diesel fuel)</u>		
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis  
Generator Authorized Agent Name

[Signature]  
Signature

022221  
Shipment Date

### Section III. TRANSPORTER Transporter I complete a-d; Transporter II complete e-j

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandon Foddis  
b. Phone No. \_\_\_\_\_ c. Truck No. VT 13

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name / Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 022221  
Driver Signature Shipment Date

[Signature] [Signature]  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space \_\_\_\_\_  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 22 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9176  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT 12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____	PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>2142</u>	<u>2142</u>
9. <u>(Contains less than 10 percent diesel fuel),</u>		
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Alan Harris Alan Harris

0	2	2	2	2	1
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Generator Authorized Agent Name Signature Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237	<b>TRANSPORTER II</b>						
a. Driver Name/Title <u>Chris May, Jr</u>	e. Name _____						
b. Phone No. <u>956 532 2000</u> c. Truck No. <u>VT12</u>	f. Address _____						
Hazardous Waste Transporter Permits EPA NCD062536222	g. Driver Name/Title _____						
d. <u>[Signature]</u> <table border="1" style="display: inline-table;"><tr><td>0</td><td>2</td><td>2</td><td>2</td><td>2</td><td>1</td></tr></table>	0	2	2	2	2	1	h. Phone No. _____ i. Truck No. _____
0	2	2	2	2	1		
Driver Signature <span style="margin-left: 100px;">Shipment Date</span>	j. Transporter II Permit Nos. _____						
	_____ Driver Signature <span style="margin-left: 100px;">Shipment Date</span>						

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e. Discrepancy Indication Space \_\_\_\_\_  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 22 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 375-7779

Manifest No. 9180

Job No. 15000

P.O. No. 308734

Trk. No. VT 13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator completes all of Section I)

GENERATOR LOCATION: THE COLONIAL PIPELINE  
 FROM THE OFFICE: 1105 HUNTERSVILLE CONCORD RD  
 ADDRESS: HUNTSVILLE NC 28078  
 CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
 PHONE NO.: \_\_\_\_\_ CONTACT NAME: \_\_\_\_\_

WORK CONTRACTED BY  
Bill To (if different from information at left)

### Section II. WASTE INFORMATION

DESCRIPTION	SOLIDS	GALLONS	DRUMS	QUANTITY	LINE TOTAL
1. NON-HAZARDOUS LIQUID WASTE					
2. PETROLEUM CONTAMINATED WASTE FROM THE DRUMS OF CONTAMINATED AREA					
3. OIL FROM LIFTAL USED IN DRUMS FROM THE DRUMS OF CONTAMINATED AREA					
4. SEDIMENT OF OIL FROM WASTE FROM CONTAMINATED AREA					
5. 5 GALLON DRUMS FROM THE LIQUID SOLID OF EMPTY					
6. LIQUID WASTE FROM CAR WASH					
UN-SEE Contaminated Liquid NOS Contains no hazardous waste USE PIPELINE				3384	3384

GENERATOR CERTIFICATION: I hereby certify that the above described waste is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly identified, labeled, packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I hereby warrant that the waste is being treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

*Adam Morris*  
Generator Authorized Agent Name

*[Signature]*  
Signature

022221  
Shipment Date

### Section III. TRANSPORTER

**Legacy**  
ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333-CHARLOTTE, NC 28237

a. Driver Name/Title: Brandon Eddles  
 b. Phone No.: \_\_\_\_\_ c. Truck No. VT 13  
 Hazardous Waste Transporter Permits  
 EPA NCD062536222

d. *[Signature]*  
Driver Signature

e. Name: \_\_\_\_\_ f. Address: \_\_\_\_\_  
 g. Driver Name/Title: \_\_\_\_\_  
 h. Phone No.: \_\_\_\_\_ i. Truck No.: \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_

022221  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
 Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
 b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

Discrepancy Indication Space: \_\_\_\_\_  
 I hereby certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum based waste is used as a beneficial reusable fuel for use in large industrial burners. (2) Waste water will be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system or pretreatment system. (3) Sludge from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and must be processed within seven days.

*[Signature]* DATE MONTH 2 DAY 22 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9093

Job No. 15000

P.O. No. 308734

Trk. No. VT13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____	PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>2880</u>	<u>2880</u>
9. <u>(Contains less than 10 percent diesel fuel),</u>		
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
Generator Authorized Agent Name

[Signature]  
Signature

022221  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-j)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title <u>Brandon Eddins</u>	e. Name _____
b. Phone No. _____	f. Address _____
c. Truck No. <u>VT-13</u>	g. Driver Name/Title _____
Hazardous Waste Transporter Permits	h. Phone No. _____
EPA NCD062536222	i. Truck No. _____
d. <u>[Signature]</u>	j. Transporter II Permit Nos. _____
<u>022221</u>	_____
Driver Signature	Shipment Date
_____	_____
Driver Signature	Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 22 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9178  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>	<b>WORK CONTRACTED BY</b>
NAME <u>COLONIAL PIPELINE</u>	Bill To (If different from information at left)
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>	NAME _____
MAILING ADDRESS _____	ADDRESS _____
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____
CONTACT NAME _____	CONTACT NAME _____
DES. OF WASTE: _____	

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>2730</u>	<u>2730</u>
9. <u>(Contains less than 10 percent diesel fuel),</u>		
10. <u>3, PG III Gasoline</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

[Signature]  
Generator Authorized Agent Name

[Signature]  
Signature

022321  
Shipment Date

### Section III. TRANSPORTER TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
b. Phone No. 9565322021 c. Truck No. VT-12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222

[Signature]  
Driver Signature

022321  
Shipment Date

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space \_\_\_\_\_  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 23 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9179  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR INFORMATION

**GENERATOR LOCATION**  
 NAME COLONIAL PIPELINE  
 ORIGINATING ADDRESS 14108 HUNTERSVILLE CONCORD RD  
 MAILING ADDRESS \_\_\_\_\_  
 CITY HUNTERSVILLE STATE NC ZIP 28078  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_

**WORK CONTRACTED BY**  
 Bill To (If different from information at left)  
 NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_

DES. OF WASTE: \_\_\_\_\_

### Section II. WASTE INFORMATION

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>2745.6</u>	<u>2745.6</u>
9. <u>(Contains less than 14 percent diesel fuel),</u>		
10. <u>3, PG III Gasoline</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris Generator Authorized Agent Name  
Al Up Signature  
022321 Shipment Date

### Section III. TRANSPORTER

**Legacy**  
 ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237

a. Driver Name/Title Brandon Eddins  
 b. Phone No. \_\_\_\_\_ c. Truck No. UT-13

Hazardous Waste Transporter Permits  
 EPA NCD062536222

d. [Signature] 022321 Shipment Date

**TRANSPORTER II**  
 e. Name \_\_\_\_\_  
 f. Address \_\_\_\_\_  
 g. Driver Name/Title \_\_\_\_\_  
 h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_

\_\_\_\_\_  
 Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
 Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
 b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 2 DAY 23 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9177  
Job No. 15000  
P.O. No. 308374  
Trk. No. VT 13

## NON-HAZARDOUS SPECIAL WASTE

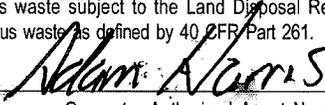
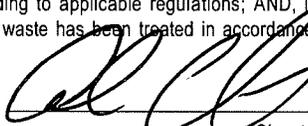
### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____	PHONE NO. _____	
PHONE NO. _____		CONTACT NAME _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.		
9. (Contains less than 10 percent diesel fuel),		
10. 3, PG III GASOLINE	3048	3048

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

 Generator Authorized Agent Name	 Signature	<div style="border: 1px solid black; padding: 2px; display: inline-block;">022421</div> Shipment Date
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### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237	<b>TRANSPORTER II</b>
a. Driver Name/Title <u>Brandi Eddins</u>	e. Name _____
b. Phone No. _____ c. Truck No. <u>VT-13</u>	f. Address _____
Hazardous Waste Transporter Permits EPA NCD062536222	g. Driver Name/Title _____
d.  Driver Signature	h. Phone No. _____ i. Truck No. _____
<div style="border: 1px solid black; padding: 2px; display: inline-block;">022421</div> Shipment Date	j. Transporter II Permit Nos. _____
	<div style="border: 1px solid black; width: 100px; height: 20px; display: inline-block;"></div> Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e. Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT <u>Gilliam Duncan</u>	DATE	MONTH <u>02</u>	DAY <u>24</u>	YEAR <u>21</u>
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# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9092

Job No. 15000

P.O. No. 308734

Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
 NAME COLONIAL PIPELINE  
 ORIGINATING ADDRESS 14108 HUNTERSVILLE CONCORD RD  
 MAILING ADDRESS \_\_\_\_\_  
 CITY HUNTERSVILLE STATE NC ZIP 28078  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_  
 DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
 Bill To (If different from information at left)  
 NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.	<u>28</u>	<u>2806.4</u>
9. (Contains less than 10 percent diesel fuel),		
10. 3, PG III <u>gasoline</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris Generator Authorized Agent Name  
[Signature] Signature  
022921 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-j)

**Legacy**  
 ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237

a. Driver Name/Title Eliseo Mejia  
 b. Phone No. 9565322021 c. Truck No. VT-12

Hazardous Waste Transporter Permits  
 EPA NCD062530222

d. [Signature] Driver Signature  
022421 Shipment Date

**TRANSPORTER II**  
 e. Name \_\_\_\_\_  
 f. Address \_\_\_\_\_  
 g. Driver Name/Title \_\_\_\_\_  
 h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_  
 \_\_\_\_\_ Driver Signature  
 \_\_\_\_\_ Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
 Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
 b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 02 DAY 24 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9182  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____	PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>	<b>2976</b>	<b>2976</b>
9. <b>(Contains less than 1 percent diesel fuel),</b>		
10. <b>3, PG III GASOLINE</b>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis  
Generator Authorized Agent Name

[Signature]  
Signature  
022421  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-j)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title <u>Brandon Eddus</u>	e. Name _____
b. Phone No. _____ c. Truck No. <u>VT 13</u>	f. Address _____
Hazardous Waste Transporter Permits EPA NCD062536222	g. Driver Name/Title _____
d. <u>[Signature]</u> 022421 Driver Signature Shipment Date	h. Phone No. _____ i. Truck No. _____
	j. Transporter II Permit Nos. _____
	_____ Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e. Discrepancy Indication Space \_\_\_\_\_  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 02 DAY 24 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9172

Job No. 15000

P.O. No. 308734

Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**

NAME COLONIAL PIPELINE WORK CONTRACTED BY \_\_\_\_\_  
Bill To (if different from information at left)

ORIGINATING ADDRESS 14108 HUNTERSVILLE CONCORD RD NAME \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_ ADDRESS \_\_\_\_\_

CITY HUNTERSVILLE STATE NC ZIP 28078 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_

CONTACT NAME \_\_\_\_\_ CONTACT NAME \_\_\_\_\_

DES. OF WASTE: \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>A</u>	<u>2625</u>
9. <u>(Contains less than 10 percent diesel fuel),</u>		<u>2625</u>
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Hollis  
Generator Authorized Agent Name

[Signature]  
Signature

022521  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Eliseo Mejia  
b. Phone No. 956 532 2021 c. Truck No. VT-12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536227

[Signature]  
Driver Signature

022521  
Shipment Date

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 02 DAY 25 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9170  
Job No. 15000  
P.O. No. 308734  
Trk. No. ✓ T-12

## NON-HAZARDOUS SPECIAL WASTE

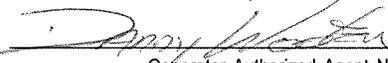
### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>	<b>WORK CONTRACTED BY</b>
NAME <u>COLONIAL PIPELINE</u>	Bill To (If different from information at left)
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>	NAME _____
MAILING ADDRESS _____	ADDRESS _____
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____
PHONE NO. _____	PHONE NO. _____
CONTACT NAME _____	CONTACT NAME _____
DES. OF WASTE: _____	

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.	1848	1848
9. (Contains less than 10 percent diesel fuel),		
10. 3, PG III GASOLINE		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

 \_\_\_\_\_  \_\_\_\_\_ 

0	2	2	5	2	1
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 Shipment Date

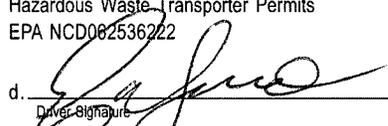
Generator Authorized Agent Name Signature

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

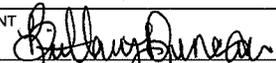
#### TRANSPORTER II

a. Driver Name/Title <u>Elisao Mejia</u>	e. Name _____						
b. Phone No. <u>956 532 2021</u> c. Truck No. <u>VT-12</u>	f. Address _____						
Hazardous Waste Transporter Permits EPA NCD082536222	g. Driver Name/Title _____						
d.  _____ <table border="1"><tr><td>0</td><td>2</td><td>2</td><td>5</td><td>2</td><td>1</td></tr></table> Shipment Date	0	2	2	5	2	1	h. Phone No. _____ i. Truck No. _____
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	j. Transporter II Permit Nos. _____						
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### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT  \_\_\_\_\_ DATE \_\_\_\_\_ MONTH 02 DAY 25 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9173  
Job No. 15000  
P.O. No. 308734  
Trk. No. UT13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u> STATE <u>NC</u> ZIP <u>28078</u>	CITY _____ STATE _____ ZIP _____	PHONE NO. _____	
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>2491.2</u>	<u>2491.2</u>
9. <u>(Contains less than 10 percent diesel fuel),</u>		
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste, as defined by 40 CFR Part 261.

Jamie Lollis Generator Authorized Agent Name      [Signature] Signature      022521 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-j)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237		<b>TRANSPORTER II</b>	
a. Driver Name/Title <u>Brandon Eddins</u>	e. Name _____	f. Address _____	
b. Phone No. _____ c. Truck No. <u>UT13</u>	g. Driver Name/Title _____	h. Phone No. _____ i. Truck No. _____	
Hazardous Waste Transporter Permits EPA NCD062536222	j. Transporter II Permit Nos. _____	_____	
d. <u>[Signature]</u> Driver Signature <u>022521</u> Shipment Date	_____ Driver Signature	_____ Shipment Date	

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature]      DATE      MONTH 02      DAY 25      YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9171  
Job No. 15000  
P.O. No. 308734  
Trk. No. VT-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u>	STATE <u>NC</u>	CITY _____	STATE _____ ZIP _____
PHONE NO. _____	ZIP <u>28078</u>	PHONE NO. _____	CONTACT NAME _____
CONTACT NAME _____		CONTACT NAME _____	
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS    GALLONS    DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <b>UN 1993, Combustible Liquids, N.O.S.</b>	<u>2427.6</u>	<u>2427.6</u>
9. <b>(Contains less than 10 percent diesel fuel),</b>		
10. <b>3, PG III GASOLINE</b>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name James Collins Signature \_\_\_\_\_ Shipment Date 022621

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b> ENVIRONMENTAL SERVICES, LLC P.O. BOX 37333 • CHARLOTTE, N.C. 28237		<b>TRANSPORTER II</b>	
a. Driver Name/Title <u>Glenn Meyer</u>		e. Name _____	
b. Phone No. <u>910 532 2021</u>	c. Truck No. <u>VT-12</u>	f. Address _____	
Hazardous Waste Transporter Permits EPA NCD062536222		g. Driver Name / Title _____	
d. Driver Signature _____		h. Phone No. _____ i. Truck No. _____	
Shipment Date <u>022621</u>		j. Transporter II Permit Nos. _____	
Driver Signature _____		Shipment Date _____	

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT Brittany Duncan DATE MONTH 02 DAY 26 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9186

Job No. 15000

P.O. No. 308734

Trk. No. VT 13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**

NAME COLONIAL PIPELINE WORK CONTRACTED BY \_\_\_\_\_  
Bill To (If different from information at left)

ORIGINATING ADDRESS 14108 HUNTERSVILLE CONCORD RD NAME \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_ ADDRESS \_\_\_\_\_

CITY HUNTERSVILLE STATE NC ZIP 28078 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_

CONTACT NAME \_\_\_\_\_ CONTACT NAME \_\_\_\_\_

DES. OF WASTE: \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>3048</u>	<u>3048</u>
9. <u>(Contains less than 10 percent diesel fuel),</u>		
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis Generator Authorized Agent Name  
[Signature] Signature  
022621 Shipment Date

### Section III. TRANSPORTER (Transporter I complete e-j; Transporter II complete h-n)

**Legacy**  
ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

a. Driver Name/Title DAVID HARRIS e. Name \_\_\_\_\_

b. Phone No. \_\_\_\_\_ f. Address \_\_\_\_\_

c. Truck No. VT 13 g. Driver Name/Title \_\_\_\_\_

Hazardous Waste Transporter Permits h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 EPA NCD062536222 j. Transporter II Permit Nos. \_\_\_\_\_

d. [Signature] Driver Signature 022621 Shipment Date \_\_\_\_\_ Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv. a. Phone No. 704-361-5837

Physical Address: 3637 N. Graham Street b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28206 Charlotte, NC 28237

e: Discrepancy Indication Space.  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 02 DAY 26 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
 P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
 (704) 361-5837  
 FAX (704) 379-7779

Manifest No. 9185  
 Job No. 15000  
 P.O. No. 308734  
 Trk. No. VT 13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

<b>GENERATOR LOCATION</b>		<b>WORK CONTRACTED BY</b>	
NAME <u>COLONIAL PIPELINE</u>		Bill To (If different from information at left)	
ORIGINATING ADDRESS <u>14108 HUNTERSVILLE CONCORD RD</u>		NAME _____	
MAILING ADDRESS _____		ADDRESS _____	
CITY <u>HUNTERSVILLE</u>	STATE <u>NC</u>	CITY _____	STATE _____ ZIP _____
ZIP <u>28078</u>		PHONE NO. _____	
PHONE NO. _____		CONTACT NAME _____	
CONTACT NAME _____			
DES. OF WASTE: _____			

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7. _____		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>2667</u>	<u>2667</u>
9. <u>(Contains less than 1% percent diesel fuel),</u>		
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Jamie Lollis Generator Authorized Agent Name [Signature] Signature 022621 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

<b>Legacy</b>		<b>TRANSPORTER II</b>	
ENVIRONMENTAL SERVICES, LLC		e. Name _____	
P.O. BOX 37333 • CHARLOTTE, N.C. 28237		f. Address _____	
a. Driver Name/Title <u>Viktor Busch</u>		g. Driver Name/Title _____	
b. Phone No. _____	c. Truck No. <u>VT 13</u>	h. Phone No. _____ i. Truck No. _____	
Hazardous Waste Transporter Permits EPA NCD062536222		j. Transporter II Permit Nos. _____	
d. <u>[Signature]</u> Driver Signature	<u>022621</u> Shipment Date	_____ Driver Signature	
		_____ Shipment Date	

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: <u>Legacy Envir. Serv.</u>	a. Phone No. <u>704-361-5837</u>
Physical Address: <u>3637 N. Graham Street</u>	b. Mailing Address: <u>P.O. Box 37333</u>
<u>Charlotte, NC 28206</u>	<u>Charlotte, NC 28237</u>

e. Discrepancy Indication Space.  
 This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 02 DAY 26 YEAR 2021



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9183

Job No. 15000

P.O. No. 308734

Trk. No. VT 13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**

NAME COLONIAL PIPELINE WORK CONTRACTED BY \_\_\_\_\_  
Bill To (if different from information at left)

ORIGINATING ADDRESS 14108 HUNTERSVILLE CONCORD RD NAME \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_ ADDRESS \_\_\_\_\_

CITY HUNTERSVILLE STATE NC ZIP 28078 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_

CONTACT NAME \_\_\_\_\_ CONTACT NAME \_\_\_\_\_

DES. OF WASTE: \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>		
9. <u>(Contains less than 10 percent diesel fuel),</u>	<u>3048</u>	<u>3048</u>
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
Generator Authorized Agent Name

[Signature]  
Signature

022721  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandon Eddings

b. Phone No. \_\_\_\_\_ c. Truck No. VT13

Hazardous Waste Transporter Permits  
EPA NCD062536222

d. [Signature] 022721  
Driver Signature Shipment Date

e. Name \_\_\_\_\_

f. Address \_\_\_\_\_

g. Driver Name/Title \_\_\_\_\_

h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_

j. Transporter II Permit Nos. \_\_\_\_\_

\_\_\_\_\_  
Driver Signature

\_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv. a. Phone No. 704-361-5837

Physical Address: 3637 N. Graham Street b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28206 Charlotte, NC 28237

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT William Duggan DATE MONTH 02 DAY 27 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9184

Job No. 15000

P.O. No. 308734

Trk. No. VT 13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
 NAME COLONIAL PIPELINE  
 ORIGINATING ADDRESS 14108 HUNTERSVILLE CONCORD RD  
 MAILING ADDRESS \_\_\_\_\_  
 CITY HUNTERSVILLE STATE NC ZIP 28078  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_  
 DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
 Bill To (If different from information at left)  
 NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_  
 CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>		
9. <u>(Contains less than 1% percent diesel fuel)</u>	<u>3024</u>	<u>3024</u>
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Alvin Harris Generator Authorized Agent Name  
[Signature] Signature  
02 27 21 Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandon Eddins  
 b. Phone No. \_\_\_\_\_ c. Truck No. VT13  
 Hazardous Waste Transporter Permits  
 EPA NCD062536222  
 d. [Signature] Driver Signature  
 02 27 21 Shipment Date

e. Name \_\_\_\_\_  
 f. Address \_\_\_\_\_  
 g. Driver Name/Title \_\_\_\_\_  
 h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_  
 \_\_\_\_\_ Driver Signature  
 \_\_\_\_\_ Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
 Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
 b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 02 DAY 27 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9128

Job No. 15000

P.O. No. 308734

Trk. No. ✓ T-12

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

GENERATOR LOCATION  
NAME COLONIAL PIPELINE  
ORIGINATING ADDRESS 14108 HUNTERSVILLE CONCORD RD  
MAILING ADDRESS \_\_\_\_\_  
CITY HUNTERSVILLE STATE NC ZIP 28078  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

WORK CONTRACTED BY  
Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.	<u>2684</u>	<u>2684</u>
9. (Contains less than 1% percent diesel fuel),		
10. 3, PG III GASOLINE		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
Generator Authorized Agent Name

[Signature]  
Signature

022821  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Cliseo Mejia  
b. Phone No. 956 532 2021 c. Truck No. ✓ T-12

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD082536222

d. [Signature] 022821  
Driver Signature Shipment Date

[Signature] \_\_\_\_\_  
Driver Signature Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e. Discrepancy Indication Space \_\_\_\_\_  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT [Signature] DATE MONTH 02 DAY 28 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. 9127

Job No. 15000

P.O. No. 308734

Trk. No. VT13

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
NAME COLONIAL PIPELINE  
ORIGINATING ADDRESS 14108 HUNTERSVILLE CONCORD RD  
MAILING ADDRESS \_\_\_\_\_  
CITY HUNTERSVILLE STATE NC ZIP 28078  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. <u>UN 1993, Combustible Liquids, N.O.S.</u>	<u>3600</u>	<u>3600</u>
9. <u>(Contains less than 10 percent diesel fuel),</u>		
10. <u>3, PG III GASOLINE</u>		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Adam Harris  
Generator Authorized Agent Name

AK  
Signature  
022821  
Shipment Date

### Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title Brandon Ebbles  
b. Phone No. \_\_\_\_\_ c. Truck No. VT13

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062536222  
[Signature]  
d. \_\_\_\_\_  
022821  
Driver Signature Shipment Date

\_\_\_\_\_  
Driver Signature  
\_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Legacy Envir. Serv.  
Physical Address: 3637 N. Graham Street  
Charlotte, NC 28206

a. Phone No. 704-361-5837  
b. Mailing Address: P.O. Box 37333  
Charlotte, NC 28237

e: Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT Dillane DATE MONTH 02 DAY 28 YEAR 21



# Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237  
(704) 361-5837  
FAX (704) 379-7779

Manifest No. **9124**

Job No. **15000**

P.O. No. **308734**

Trk. No. **VT-12**

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator complete all of Section I)

**GENERATOR LOCATION**  
NAME **COLONIAL PIPELINE**  
ORIGINATING ADDRESS **14108 HUNTERSVILLE CONCORD RD**  
MAILING ADDRESS \_\_\_\_\_  
CITY **HUNTERSVILLE** STATE **NC** ZIP **28078**  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_  
DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**  
Bill To (If different from information at left)  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
PHONE NO. \_\_\_\_\_  
CONTACT NAME \_\_\_\_\_

### Section II. INVOICE INFORMATION

### SOLIDS GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. NON-HAZ MINERAL OIL FOR RECYCLE		
2. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR CONTAINMENT AREA		
3. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUMS REMOVED - LIQUID, SOLID OR EMPTY		
6. LIQUIDS & SOLIDS REMOVED FROM CAR WASH		
7.		
8. UN 1993, Combustible Liquids, N.O.S.	2552	2552
9. (Contains less than 10 percent diesel fuel),		
10. 3, PG III GASOLINE		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

*Adam Harris*  
Generator Authorized Agent Name

*[Signature]*  
Signature

02 28 21  
Shipment Date

### Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

#### Legacy

ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 37333 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name/Title **Alison Mejia**  
b. Phone No. **956 532 2021** c. Truck No. **VT-12**

e. Name \_\_\_\_\_  
f. Address \_\_\_\_\_  
g. Driver Name/Title \_\_\_\_\_  
h. Phone No. \_\_\_\_\_ i. Truck No. \_\_\_\_\_  
j. Transporter II Permit Nos. \_\_\_\_\_

Hazardous Waste Transporter Permits  
EPA NCD062538222

*[Signature]*  
Driver Signature  
02 28 21  
Shipment Date

\_\_\_\_\_  
Driver Signature  
\_\_\_\_\_  
Shipment Date

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: **Legacy Envir. Serv.**  
Physical Address: **3637 N. Graham Street**  
**Charlotte, NC 28206**

a. Phone No. **704-361-5837**  
b. Mailing Address: **P.O. Box 37333**  
**Charlotte, NC 28237**

e. Discrepancy Indication Space.  
This is to certify that all non-hazardous material removed from above location has been transported and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation. (3) Solids from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT *[Signature]* DATE MONTH **02** DAY **28** YEAR **21**

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
10/7/2020	80	1	763626	20.64	X
10/7/2020	76	2	763625	12.67	X
10/7/2020	83	3	763624	18.6	X
10/7/2020	131	4	763623	22.68	X
10/7/2020	138	5	763622	22.18	X
10/7/2020	159	6	763621	22.1	X
10/7/2020	161	7	763620	16.22	X
10/7/2020	163	8	763619	21.29	X
10/7/2020	84	9	763618	21.87	X
10/7/2020	152	10	763617	20.6	X
10/8/2020	140	11	763616	23.31	X
10/8/2020	83	12	763615	19.6	X
10/8/2020	80	13	763614	20.55	X
10/8/2020	76	14	763613	13.15	X
10/8/2020	131	15	763612	23.02	X
10/8/2020	138	16	763611	23.34	X
10/8/2020	159	17	763610	23.07	X
10/8/2020	161	18	763609	19.21	X
10/8/2020	80	19	763608	19.69	X
10/8/2020	83	20	763607	20.2	X
10/8/2020	162	21	763606	23.64	X
10/8/2020	84	22	763605	12.05	X
10/8/2020	163	23	763604	25.21	X
10/8/2020	83	24	763603	21.84	X
10/8/2020	83	25	763602	23.85	X
10/8/2020	80	26	763601	20.07	X
10/8/2020	131	27	763600	22.92	X
10/8/2020	138	28	763599	22.84	X
10/8/2020	140	29	763598	23.26	X
10/8/2020	162	30	763597	24.74	X
10/8/2020	84	31	763596	21.81	X
10/8/2020	161	32	763595	18.15	X
10/8/2020	80	33	763594	23.42	X
10/8/2020	159	34	763593	23.37	X
10/8/2020	163	35	763592	26.12	X
10/8/2020	84	36	763591	21.45	X
10/8/2020	131	37	763590	24.03	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
10/8/2020	138	38	763589	22.18	X
10/9/2020	83	39	763588	24.07	X
10/9/2020	80	40	763587	23.98	X
10/9/2020	80	41	763586	20.06	X
10/9/2020	162	42	763585	22.25	X
10/9/2020	131	43	763584	22.4	X
10/9/2020	161	44	763583	18.38	X
10/9/2020	84	45	763582	19.74	X
10/9/2020	159	46	763581	21.94	X
10/9/2020	140	47	763580	25.28	X
10/9/2020	83	48	763579	22.92	X
10/9/2020	163	49	763578	21.82	X
10/9/2020	80	50	765577	19.84	X
10/9/2020	138	51	763576	22.08	X
10/9/2020	83	52	763575	19.47	X
10/9/2020	131	53	763574	21.24	X
10/9/2020	162	54	763573	21.62	X
10/9/2020	140	55	763572	25.73	X
10/9/2020	84	56	763571	19.97	X
10/9/2020	161	57	763570	17.38	X
10/9/2020	163	58	763568	22.2	X
10/9/2020	80	59	763569	20.81	X
10/9/2020	159	60	763567	23.02	X
10/9/2020	83	61	763566	21.28	X
10/13/2020	159	62	763565	23.92	X
10/9/2020	80	63	763563	21.09	X
10/13/2020	159	62	763565	23.92	X
10/14/2020	131	63	763564	17.34	X
10/13/2020	163	64	763562	23.78	X
10/13/2020	138	65	763561	23.64	X
10/13/2020	76	66	763560	13.32	X
10/13/2020	131	67	763559	18.51	X
10/13/2020	162	68	763558	17.66	X
10/13/2020	80	69	763557	15.91	X
10/13/2020	84	70	763556	16.64	X
10/14/2020	84	71	763555	17.02	X
10/14/2020	159	72	763554	18.36	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
10/14/2020	162	73	763553	20.6	X
10/14/2020	163	74	763552	20.63	X
10/14/2020	138	75	763551	16.65	X
10/14/2020	80	76	763550	19.29	X
10/14/2020	83	77	763549	18:57	X
10/13/2020	140	78	763548	22.7	X
10/14/2020	84	79	763547	19.59	X
10/14/2020	162	80	763546	21.53	X
10/14/2020	159	81	763545	20.11	X
10/14/2020	163	82	763528	19.57	X
10/14/2020	138	83	763529	20.27	X
10/14/2020	131	84	763530	20.79	X
10/14/2020	80	85	763531	16.14	X
10/14/2020	83	86	763532	19.68	X
10/14/2020	84	87	763533	22.43	X
10/14/2020	163	88	763534	20.38	X
10/14/2020	159	89	763535	23.01	X
10/14/2020	138	90	763536	18.62	X
10/15/2020	162	91	763537	21.45	X
10/15/2020	131	92	763538	25.29	X
10/15/2020	160	93	763539	22.34	X
10/15/2020	80	94	763540	17.31	X
10/15/2020	84	95	763541	22.81	X
10/15/2020	83	96	763542	21.78	X
10/15/2020	163	97	763543	25.06	X
10/15/2020	159	98	763544	20.1	X
10/15/2020	83	99	1041191	20.06	X
10/15/2020	84	100	1041192	20.18	X
10/15/2020	162	101	1041193	9.98	X
10/15/2020	138	102	1041194	19.84	X
10/15/2020	80	103	1041195	19.33	X
10/15/2020	84	104	1041196	23.51	X
10/15/2020	131	105	1041197	20.59	X
10/15/2020	160	106	1041198	21.17	X
10/16/2020	163	107	1041199	23.45	X
10/16/2020	148	108	1041200	23.54	X
10/16/2020	162	109	1041201	24.52	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
10/16/2020	131	110	1041202	24.79	X
10/16/2020	80	111	1041203	13.55	X
10/16/2020	140	112	1041204	22.24	X
10/16/2020	160	113	1041205	22.85	X
10/16/2020	131	114	1041206	21.88	X
10/16/2020	83	115	1041207	19.6	X
10/16/2020	138	116	1041208	22.2	X
10/16/2020	162	117	1041209	23.01	X
10/16/2020	163	118	1041210	22.69	X
10/16/2020	160	119	1041211	23.28	X
10/16/2020	80	120	1041212	20.78	X
10/16/2020	140	121	1041213	23.99	X
10/16/2020	83	122	1041214	20.75	X
10/16/2020	138	123	1041215	22.93	X
10/16/2020	131	124	1041216	23.66	X
10/16/2020	84	125	1041217	21.2	X
10/15/2020	83	126	1041240	20.23	X
10/15/2020	83	127	1041239	20.25	X
10/15/2020	138	128	1041238	23.64	X
10/15/2020	162	129	1041237	22.27	X
10/16/2020	84	130	1041236	21.25	X
10/15/2020	80	131	1041235	20.05	X
10/15/2020	131	132	1041234	22.39	X
10/15/2020	160	133	1041233	21.69	X
10/15/2020	83	134	1041232	19.76	X
10/16/2020	138	135	1041231	21.88	X
10/16/2020	83	136	1041230	19.9	X
10/16/2020	163	137	1041229	22.39	X
10/16/2020	160	138	1041228	21.86	X
10/16/2020	80	139	1041227	19.81	X
10/16/2020	138	140	1041226	22.35	X
10/16/2020	140	141	1041225	23.29	X
10/17/2020	83	142	1041224	21.04	X
10/16/2020	83	143	1041223	21.55	X
10/17/2020	131	144	1041222	24.25	X
10/17/2020	84	145	1041221	22.42	X
10/17/2020	84	146	1041220	20.74	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
10/17/2020	163	147	1041219	22.37	X
10/17/2020	159	148	1041218	23.09	X
10/17/2020	160	149	1042521	28.87	X
10/17/2020	138	150	1042522	17.61	X
10/17/2020	162	151	1042523	22.25	X
10/17/2020	131	152	1042524	23.74	X
10/17/2020	83	153	1042525	21.69	X
10/19/2020	160	154	1042526	22.93	X
10/19/2020	138	155	1042527	21.68	X
10/17/2020	84	156	1042528	22.51	X
10/19/2020	84	157	1042529	21.84	X
10/19/2020	84	158	1042530	21.4	X
10/19/2020	131	159	1042531	25.24	X
10/19/2020	160	160	1042532	23.97	X
10/19/2020	80	161	1042533	22.1	X
10/19/2020	148	162	1042534	25.18	X
10/19/2020	163	163	1042535	23	X
10/19/2020	162	164	1042536	24.93	X
10/19/2020	83	165	1042537	20.12	X
10/19/2020	83	166	1042538	20.78	X
10/19/2020	159	167	1042539	23.25	X
10/19/2020	138	168	1042540	24.46	X
10/19/2020	163	169	1042541	24.13	X
10/19/2020	162	170	1042542	24.68	X
10/19/2020	159	171	1042552	22.51	X
10/19/2020	148	172	1042550	24.25	X
10/19/2020	143	173	1042550	24.25	X
10/19/2020	80	174	1042549	19.28	X
10/19/2020	83	175	1042548	21.09	X
10/19/2020	83	176	1042547	20.36	X
10/27/2020	84	177	1042546	19.06	X
10/27/2020	84	178	1042545	18.83	X
10/19/2020	84	179	1042544	17.22	X
10/19/2020	84	180	1042543	21.05	X
10/19/2020	138	181	1042553	22.15	X
10/19/2020	160	182	1042554	22.46	X
10/19/2020	162	183	1042555	22.78	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
10/19/2020	163	184	1042556	22.84	X
10/19/2020	159	185	1042557	21.94	X
10/19/2020	80	186	1042558	19.46	X
10/19/2020	148	187	1042559	22.35	X
10/19/2020	138	188	1042569	19.52	X
10/19/2020	160	189	1042568	21.9	X
10/27/2020	162	190	1042567	19.53	X
10/19/2020	80	191	1042566	20.21	X
10/20/2020	148	192	1042565	23.85	X
10/19/2020	83	193	1042564	21.15	X
10/19/2020	163	194	1042563	22.45	X
10/20/2020	138	195	1042562	21.32	X
10/27/2020	138	196	1042561	26.39	X
10/27/2020	80	197	1042560	17.99	X
10/27/2020	83	198	1042570	17.61	X
10/27/2020	159	199	1042571	15.69	X
10/27/2020	163	200	1042572	27.02	X
10/27/2020	152	201	1042573	15.26	X
10/27/2020	162	202	1042574	12.25	X
10/27/2020	160	203	1042575	23.35	X
10/27/2020	148	204	1042576	19.66	X
10/27/2020	138	205	1042577	21.4	X
10/27/2020	80	206	1042578	17.99	X
10/27/2020	148	208	1042580	26.34	X
10/27/2020	159	209	1042581	21.14	X
10/27/2020	163	210	1042582	21.3	X
10/27/2020	160	211	1042583	23.81	X
10/27/2020	162	212	1042584	25.04	X
10/27/2020	152	213	1042585	28.95	X
10/27/2020	138	214	1042586	24.03	X
10/27/2020	148	215	1042587	29.6	X
10/27/2020	80	216	1042588	19.2	X
10/27/2020	83	217	1042589	19	X
10/27/2020	159	218	1042590	26.14	X
10/27/2020	163	219	1042591	27.96	X
10/28/2020	83	220	1042592	18.61	X
10/28/2020	160	221	1042593	27.25	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
10/28/2020	160	222	1042594	27.11	X
10/28/2020	84	223	1042595	18.07	X
10/28/2020	152	224	1042596	22.3	X
10/28/2020	80	225	1042597	19.45	X
10/28/2020	83	226	1042598	17.21	X
10/28/2020	148	227	1042599	26.88	X
10/28/2020	162	228	1042600	23.87	X
10/28/2020	163	229	1042601	26.78	X
10/28/2020	159	230	1042602	25.38	X
10/28/2020	160	231	1042603	24.73	X
10/28/2020	138	232	1042604	22.53	X
10/28/2020	80	233	1042605	18.57	X
10/28/2020	152	234	1042606	23.96	X
10/28/2020	84	235	1042607	19.48	X
10/29/2020	83	236	1042609	20.85	X
10/28/2020	162	237	1042610	20.04	X
10/28/2020	159	238	1042611	25.07	X
10/28/2020	163	239	1042612	23.46	X
10/29/2020	160	240	1042613	21.31	X
10/28/2020	138	241	1042614	22.8	X
10/29/2020	80	242	1042608	18.98	X
10/28/2020	82	243	1042616	1.93	X
12/1/2020	D11	244	1042716	8.99	X
12/4/2020	D10	246	1042719	18.13	X
12/7/2020	D10	247	1042718	10.86	X
12/7/2020	D10	248	1042717	20.31	X
12/8/2020	D10	249	1042715	16.57	X
12/8/2020	D10	250	1042714	18.27	X
12/9/2020	D10	251	1042713	17.75	X
12/9/2020	D10	252	1042712	16.03	X
12/15/2020	D9	253	1042711	18.3	X
12/15/2020	D10	254	1042710	15.67	X
12/28/2020	BT21	255	1042709	16.15	X
12/28/2020	BT10	256	1042708	17.13	X
12/28/2020	BT16	257	1042707	15.99	X
12/28/2020	D10	258	1042706	20.54	X
12/28/2020	BT13	259	1042705	13.73	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
12/29/2020	D11	260	1042704	18.02	X
12/29/2020	KT10	261	1042703	12.93	X
12/29/2020	2	262	1042702	14.71	X
12/29/2020	BT11	263	1042701	13.49	X
12/29/2020	D10	264	1042700	18.08	X
12/29/2020	D11	265	1042699	16.5	X
12/29/2020	2	266	1042698	10.74	X
12/29/2020	BT11	267	1042697	15.39	X
12/29/2020	D10	268	1042696	21.92	X
12/29/2020	KT10	269	1042695	13.95	X
12/29/2020	D11	270	1042694	21.82	X
12/29/2020	2	271	1042693	14.59	X
12/29/2020	BT11	272	1042692	14.15	X
12/29/2020	KT10	273	1042691	11.87	X
12/29/2020	BT16	274	1042690	18.83	X
12/29/2020	D10	275	1042689	21.27	X
12/29/2020	2	276	1042688	13.89	X
12/29/2020	11	277	1042687	21.74	X
12/29/2020	KT10	278	1042686	14.07	X
12/30/2020	BT16	279	1042685	20.84	X
12/30/2020	2	280	1042684	20.55	X
12/30/2020	D9	281	1042683	24.14	X
12/30/2020	KT12	282	1042682	18.19	X
12/30/2020	KT10	283	1042681	16.65	X
12/30/2020	D10	284	1042680	23.35	X
12/30/2020	D11	285	1042679	20.99	X
12/30/2020	BT16	286	1042678	19.04	X
12/30/2020	KT12	287	1042677	13.2	X
12/30/2020	KT10	288	1042676	11.66	X
12/30/2020	2	289	1042675	13.89	X
12/30/2020	9	290	1042674	20.15	X
12/30/2020	D11	291	1042673	18.64	X
12/30/2020	BT16	292	1042672	21.59	X
12/30/2020	D10	293	1042671	24.53	X
12/30/2020	2	294	1042670	15.86	X
12/30/2020	D9	295	1042669	23.36	X
12/30/2020	KT12	296	1042668	12.59	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
12/30/2020	KT10	297	1042667	9.69	X
12/30/2020	BT16	298	1042666	16.34	X
12/30/2020	2	299	1042665	13.59	X
12/30/2020	D9	300	1042664	20.03	X
12/30/2020	D10	301	1042663	22.03	X
12/30/2020	D11	302	1042662	19.31	X
12/30/2020	D10	303	1042661	23.84	X
12/30/2020	2	304	1042660	14.77	X
12/30/2020	KT12	305	1042659	16.1	X
1/4/2021	BT16	306	1042658	16.82	X
1/4/2021	D10	307	1042657	19.44	X
1/4/2021	D11	308	1042656	19.72	X
1/4/2021	KT10	309	1042655	10.66	X
1/4/2020	KT11	310	1042654	16.17	X
1/4/2020	D9	311	1042653	18.7	X
1/4/2021	BT16	312	1042652	16.49	X
1/4/2021	D10	313	1042651	16.61	X
1/4/2021	--	314	1042650	17.59	X
1/4/2021	--	315	1042649	16.52	X
1/5/2021	10	316	1042648	9.29	X
1/5/2021	2	317	1042647	15.68	X
1/5/2021	BT17	318	1042646	22.03	X
1/5/2021	BT13	319	1042645	18.95	X
1/5/2021	D10	320	1042644	17.82	X
1/5/2021	--	321	1042643	20.29	X
1/5/2021	D11	323	1042642	23.23	X
1/5/2021	2	324	1042641	14.6	X
1/5/2021	BT17	325	1042640	19.55	X
1/5/2021	BT13	326	1042639	15.93	X
1/5/2021	KT10	327	1042638	15.22	X
1/5/2021	D11	328	1042637	12.39	X
1/5/2021	2	329	1042636	14.48	X
1/5/2021	D10	330	1042635	10.74	X
1/5/2021	D11	331	1042634	21.16	X
1/5/2021	BT17	332	1042633	18.47	X
1/5/2021	BT13	333	1042632	14.13	X
1/5/2021	KT10	334	1042631	11.83	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
1/5/2021	2	335	1042630	13.84	X
1/6/2021	D10	336	1042629	22.66	X
1/6/2021	BT9	337	1042628	14.21	X
1/6/2021	D11	338	1042627	23.62	X
1/6/2021	KT10	339	1042626	8.52	X
1/6/2021	2	340	1042625	13.34	X
1/6/2021	BT19	341	1042624	11.17	X
1/6/2021	BPD5	342	1042623	16.84	X
1/6/2021	KT11	343	1042622	17.73	X
1/6/2021	D11	344	1042621	21.52	X
1/6/2021	BT9	345	1042722	16.39	X
1/6/2021	BT19	346	1042723	21.74	X
1/7/2021	KT10	347	1042724	13.94	X
1/7/2021	KT10	348	1042725	14.62	X
1/7/2021	KT12	349	1042726	12.39	X
1/7/2021	BPD5	350	1042727	17.02	X
1/7/2021	BT19	351	1042728	15.29	X
1/7/2021	D11	352	1042729	17.38	X
1/7/2021	D10	353	1042730	23.65	X
1/7/2021	2	354	1042731	13.53	X
1/7/2021	BPD5	355	1042732	17.74	X
1/7/2021	KT10	356	1042733	15.05	X
1/7/2021	BT19	357	1042734	16.24	X
1/7/2021	D11	358	1042735	15.15	X
1/7/2021	D10	359	1042736	19.04	X
1/7/2021	2	360	1042737	13.75	X
1/7/2021	KT10	361	1042738	12.09	X
1/7/2021	KT12	362	1042739	14.06	X
1/7/2021	BT19	363	1042740	15.63	X
1/7/2021	BPD5	364	1042741	17.08	X
1/7/2021	D11	365	1042742	19.1	X
1/7/2020	D10	366	1042743	21.91	X
1/11/2021	D9	367	1042744	21.5	X
1/11/2021	KT12	368	1042745	10.82	X
1/11/2021	KT10	369	1042746	10.56	X
1/11/2021	D11	370	1042747	15.66	X
1/11/2021	BT13	371	1042748	18.33	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
1/11/2021	D10	372	1042749	20.7	X
1/11/2021	BT19	373	1042750	14.83	X
1/11/2021	BT19	374	1042751	18.47	X
1/11/2021	BT10	375	1042752	17.11	X
1/11/2021	D11	376	1042753	22.73	X
1/11/2021	D10	377	1042754	23.1	X
1/11/2021	BT19	378	1042755	18.94	X
1/11/2021	BT13	379	1042756	22.47	X
1/11/2021	D9	380	1042757	21.75	X
1/11/2021	BT9	381	1042758	13.9	X
1/11/2021	BT10	382	1042759	18.24	X
1/11/2021	D11	383	1042760	23.37	X
1/11/2021	KT12	384	1042761	12.93	X
1/11/2021	KT10	385	1042762	12.26	X
1/11/2021	D10	386	1042763	18.35	X
1/11/2021	BT13	387	1042764	21.29	X
1/11/2021	BT19	388	1042765	16.45	X
1/11/2021	D9	389	1042766	16.4	X
1/11/2021	KT12	390	1042767	15.97	X
1/11/2021	BT10	391	1042768	14.74	X
1/11/2021	KT10	392	1042769	20.18	X
1/11/2021	BT9	393	1042770	22.24	X
1/11/2021	D10	394	1042771	13.66	X
1/11/2021	KT12	395	1042772	13.66	X
1/12/2021	D9	396	1042773	19.74	X
1/12/2021	D11	397	1042774	18.7	X
1/12/2021	KT10	398	1042775	12.27	X
1/12/2021	D10	399	1042776	20.91	X
1/12/2021	D9	400	1042777	20.9	X
1/12/2021	D10	401	1042778	19.92	X
1/12/2021	D10	402	1042779	20.7	X
1/12/2021	KT10	403	1042780	12.11	X
1/12/2021	D9	404	1042781	22.22	X
1/12/2021	D10	405	1042782	21.13	X
1/12/2021	KT10	406	1042783	11.51	X
1/12/2021	D11	407	1042784	13.36	X
1/14/2021	D9	408	1042785	19.56	X

**Table 5**  
**Summary of Soil Shipped to Republic Services**  
**(October 7, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448 Incident  
Huntersville, North Carolina

<b>Date</b>	<b>Truck No.</b>	<b>Load No.</b>	<b>Manifest No.</b>	<b>Tons</b>	<b>Manifest Previously Provided</b>
1/14/2021	D9	409	1042786	20.38	X
1/14/2021	D11	410	1042787	19.11	X
1/14/2021	D10	411	1042788	20.06	X
1/14/2021	D11	412	1042789	23.14	X
1/14/2021	D9	413	1042790	19.92	X
1/14/2021	D9	414	1042791	20.78	X
1/14/2021	D9	415	1042792	19.3	X
1/14/2021	D11	416	1042793	23.15	X
1/14/2021	BT10	417	1042794	21.01	X
1/15/2021	D10	418	1042795	20.98	X
1/15/2021	BT9	419	1042796	17.74	X
1/15/2021	D9	420	1042797	21.16	X
1/15/2021	D11	421	1042798	20.85	X
1/15/2021	D10	422	1042799	19.74	X
1/15/2021	D11	423	1042800	22.07	X
1/15/2021	D9	424	1042801	21.46	X
1/15/2021	D10	425	1042802	18.59	X
1/15/2021	D11	426	1042803	22.76	X
1/22/2021	163	427	1042822	26.58	X
1/22/2021	162	428	1042818	25.2	X
1/22/2021	148	429	1042819	31.13	X
1/22/2021	96	430	1042805	12.12	X
1/22/2021	138	431	1042821	19.66	X
1/29/2021	--	432	1042822	20.06	X
1/29/2021	--	433	1042824	17.5	X
2/2/2021	96	434	1042823	17.5	
2/8/2021	96	435	1042826	18.68	
2/15/2021	96	436	1042827	14.08	
2/24/2021	82	437	1042828	21.27	
<b>Total</b>				<b>8,604.07</b>	

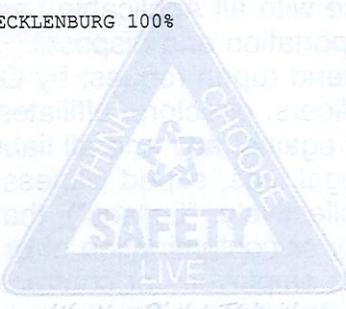
**SITE** BFI/CMS LANDFILL 704-782-2004  
5105 MOREHEAD RD CONCORD, NC 28025

**CUSTOMER** 333662  
ED WALLACE CONSTRUCTION, INC  
PO BOX 129  
STANLEY, NC 28164  
  
Contract:50102012078-2  
Generator:Colonial Pipeline Company

<b>SITE</b> y6	<b>TICKET #</b> 1789882	<b>CELL</b>
<b>WEIGHMASTER</b> Aly G.		
<b>DATE/TIME IN</b> 2/2/21 3:10 pm	<b>DATE/TIME OUT</b> 2/2/21 3:10 pm	
<b>VEHICLE</b> stat96	<b>CONTAINER</b> stat2512	
<b>REFERENCE</b> 1042823		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	67,340	NET TONS	17.50	INBOUND
TARE OUT TARE WEIGHT	32,340	NET WEIGHT	35,000	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
17.5	tn	SW-CONT SOIL-ALT DAILY Origin:MECKLENBURG 100% COVER				



HARD HATS AND SAFETY VEST ARE REQUIRED WHEN EXITING YOUR VEHICLE

WHILE IN THE LANDFILL. IF YOU DO NOT HAVE THESE ITEMS YOU MAY BORROW

A SET FROM THE SCALE HOUSE. THANK YOU.

<b>NET AMOUNT</b>
<b>TENDERED</b>
<b>CHANGE</b>
<b>CHECK#</b>

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (04/19)

SIGNATURE \_\_\_\_\_

TRAILER FACILITY  
 35. Facility Closure or Operation: Construction of facility by waste material generated by the landfill is subject to permit (19)  
 36. Description of Indicator Space  
 37. Facility Address  
 38. Generator's Copy

1705853



NON-HAZARDOUS WASTE MANIFEST

1042823

Please print or type.

1789882

1. Generator's US EPA ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address <b>CPC PO BOX 37 Faw Creek, NC 28213</b>			5. Generating Location (if different) <b>Colonial Pipeline Company 1410 Huntersville-Concord Rd. Faw Creek, NC 28078</b>		
4. Phone ( )		6. Phone ( )			
7. Transporter #1 Company Name		8. US EPA ID Number		9. Transporter #1's Phone	
10. Transporter #2 Company Name		11. US EPA ID Number		12. Transporter #2's Phone	
13. Designated T/S/D Facility Name and Site Address <b>CMB Landfill 5105 Morehead Rd Concord, NC 28027</b>		14. US EPA ID Number <b>704-262-6371</b>		15. Facility's Phone	
16. Waste Shipping Name and Description		17. Republic Services Approval # and Exp. Date		18. Containers	19. Total Quantity
				No.	Type
a. <b>contaminated soil</b>		<b>5010-20-12078</b>		<b>9/17/2021</b>	
b.					<b>1750</b>
c.					<b>35000</b>
21. Additional Descriptions for Materials Listed Above					
22. Special Handling Instructions and Additional Information <b>BAR: STAT 100170</b> <b>3331112</b>					
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
Printed/Typed Name <b>John Lucas</b>		Signature <i>[Signature]</i>		Month Day Year <b>02 02 21</b>	
24. Transporter #1: Acknowledgement of Receipt of Materials					
Printed/Typed Name <b>Darren Sidor</b>		Signature <i>[Signature]</i>		Month Day Year <b>02 02 21</b>	
25. Transporter #2: Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
26. Discrepancy Indication Space <b>CMB LANDFILL 5105 MOREHEAD RD CONCORD, NC 28027 704-262-6371</b>					
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)					
Printed/Typed Name <b>AMY</b>		Signature <i>[Signature]</i>		Month Day Year <b>12 22 21</b>	

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #2

COM000033 RS-F15

SITE DEF/CMS LANDFILL 702 702 2002  
 5105 MOREHEAD RD CONCORD, NC 28128

CUSTOMER 333662  
 ED WALLACE CONSTRUCTION, INC  
 PO BOX 129  
 STANLEY, NC 28164

Contract:50102012078-2  
 Generator:Colonial Pipeline Company

SITE	TICKET #	1700R06	CELL
WEIGHMASTER Meyona C.			
DATE/TIME IN	2/8/21 10:05 am	DATE/TIME OUT	2/8/21 10:05 am
VEHICLE	stat96	CONTAINER	stat2512
REFERENCE	1042826		
BILL OF LADING			

SCALE IN GROSS WEIGHT	74,780	NET TONS	18.68	INBOUND
TARE OUT TARE WEIGHT	37,420	NET WEIGHT	37,360	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
18.68	tn	SW-CONT SOIL-ALT DAILY Origin:MECKLENBURG 100% COVER				

HARD HATS AND SAFETY VEST ARE REQUIRED WHEN EXITING YOUR VEHICLE

WHILE IN THE LANDFILL. IF YOU DO NOT HAVE THESE ITEMS YOU MAY BORROW

A SET FROM THE SCALE HOUSE. THANK YOU.

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE \_\_\_\_\_



NON-HAZARDOUS WASTE MANIFEST

1042826

Please print or type.

11110826

1. Generator's US EPA ID Number		Manifest Document Number		2. Page 1 of				
3. Generator's Name and Mailing Address <b>CPC PO BOX 87 Paw Creek, NC 28213</b>				5. Generating Location (if different) <b>Colonial Pipeline Company 14100 Huntersville-Concord Rd. Paw Creek, NC 28078</b>				
4. Phone ( )				6. Phone ( )				
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone			
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone			
13. Designated T/S/D Facility Name and Site Address <b>CMS Landfill 5105 Morehead Rd Concord, NC 28027</b>			14. US EPA ID Number <b>704-262-6371</b>		15. Facility's Phone			
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity	20. Unit Wt/Vol
					No.	Type		
a. <b>contaminated soil</b>			<b>5010-20 12078</b>		<b>9/17/2021</b>			
b.							<b>18608</b>	
c.							<b>27260</b>	
21. Additional Descriptions for Materials Listed Above								
22. Special Handling Instructions and Additional Information <b>REG. STAT 100170</b> <i>2331102</i>								
23. <b>GENERATOR'S CERTIFICATION:</b> I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.								
Printed/Typed Name <i>Janice Lollis</i>			Signature <i>[Signature]</i>			Month <b>02</b>	Day <b>08</b>	Year <b>21</b>
24. <b>Transporter #1:</b> Acknowledgement of Receipt of Materials								
Printed/Typed Name <i>Chris Bowman</i>			Signature <i>[Signature]</i>			Month <b>02</b>	Day <b>08</b>	Year <b>21</b>
25. <b>Transporter #2:</b> Acknowledgement of Receipt of Materials								
Printed/Typed Name			Signature			Month	Day	Year
26. Discrepancy Indication Space <b>CMS LANDFILL 5105 MOREHEAD RD CONCORD, NC 28027 704-262-6371</b>								
27. <b>Facility Owner or Operator:</b> Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)								
Printed/Typed Name <i>Kay</i>			Signature <i>[Signature]</i>			Month <b>02</b>	Day <b>08</b>	Year <b>21</b>

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #2

**SITE** RPT/CMS LANDFILL 704-782-2004  
 5105 MOREHEAD RD CONCORD, NC 28104

**CUSTOMER** 333662  
 ED WALLACE CONSTRUCTION, INC  
 PO BOX 129  
 STANLEY, NC 28164

Contract:50102012078-2  
 Generator:Colonial Pipeline Company

SITE	TICKET #	1702204	CELL
WEIGHMASTER		Keyona C.	
DATE/TIME IN	2/15/21	2:04 pm	DATE/TIME OUT
VEHICLE	stat96		CONTAINER
REFERENCE	1042827		
BILL OF LADING			

SCALE IN GROSS WEIGHT	65,580	NET TONS	14.08	INBOUND
TARE OUT TARE WEIGHT	37,420	NET WEIGHT	28,160	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.08	tn	SW-CONT SOIL-ALT DAILY Origin:MECKLENBURG 100% COVER				

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WHILE IN THE LANDFILL. IF YOU DO NOT HAVE THESE ITEMS YOU MAY BORROW

A SET FROM THE SCALE HOUSE. THANK YOU.

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

SIGNATURE \_\_\_\_\_



NON-HAZARDOUS WASTE MANIFEST

1042827

Please print or type.

1792204

1. Generator's US EPA ID Number		Manifest Document Number		2. Page 1 of				
3. Generator's Name and Mailing Address <b>CPC PO BOX 87 Faw Creek, NC 28213</b>				5. Generating Location (if different) <b>Colonial Pipeline Company 14100 Huntersville-Concord Rd. Faw Creek, NC 28078</b>				
4. Phone ( )				6. Phone ( )				
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone			
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone			
13. Designated T/S/D Facility Name and Site Address <b>COMB LANDFILL 5105 MOREHEAD RD CONCORD, NC 28027</b>			14. US EPA ID Number <b>704-262-6371</b>		15. Facility's Phone			
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity	20. Unit Wt/Vol
					No.	Type		
a. <b>contaminated soil</b>			<b>5010-20-12078</b>					
b.								<b>1408</b>
c.								<b>28100</b>
21. Additional Descriptions for Materials Listed Above								
22. Special Handling Instructions and Additional Information <b>626: STAT 100170</b>								
23. <b>GENERATOR'S CERTIFICATION:</b> I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.								
Printed/Typed Name <i>Adam Lewis</i>				Signature <i>[Signature]</i>		Month Day Year <b>2 15 21</b>		
24. <b>Transporter #1:</b> Acknowledgement of Receipt of Materials								
Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year <b>2 15 21</b>		
25. <b>Transporter #2:</b> Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month Day Year		
26. Discrepancy Indication Space <b>COMB LANDFILL 5105 MOREHEAD RD CONCORD, NC 28027 704-262-6371</b>								
27. <b>Facility Owner or Operator:</b> Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)								
Printed/Typed Name <i>Kelly</i>				Signature <i>[Signature]</i>		Month Day Year <b>2 15 21</b>		

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #2

COM000033 RS-F15

BFI/CMS LANDFILL 704-782-2004  
 5105 MOREHEAD RD CONCORD, NC 280

TOMER 333662  
 ED WALLACE CONSTRUCTION, INC  
 PO BOX 129  
 STANLEY, NC 28164

Contract:50102012078-2  
 Generator:Colonial Pipeline Company

SITE Y6	TICKET # 1793897	CELL
WEIGHMASTER [redacted]ona C.		
DATE/TIME IN 2/24/21 12:15 pm	DATE/TIME OUT 2/24/21 12:15 pr	
VEHICLE stat82	CONTAINER stat2512	
REFERENCE 1042828		
BILL OF LADING		

SCALE IN GROSS WEIGHT	77,480	NET TONS	21.27	INBOUND
TARE OUT TARE WEIGHT	34,940	NET WEIGHT	42,540	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
21.27	tn	SW-CONT SOIL-ALT DAILY Origin:MECKLENBURG 100% COVER				



HARD HATS AND SAFETY VEST ARE REQUIRED WHEN EXITING YOUR VEHICLE

WHILE IN THE LANDFILL. IF YOU DO NOT HAVE THESE ITEMS YOU MAY BORROW

A SET FROM THE SCALE HOUSE. THANK YOU.

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

SIGNATURE \_\_\_\_\_



NON-HAZARDOUS WASTE MANIFEST

1042828

Please print or type.

1. Generator's US EPA ID Number		Manifest Document Number		2. Page 1 of		1042828		
3. Generator's Name and Mailing Address CPC PO BOX 87 Paw Creek, NC 28213				5. Generating Location (if different) Colonial Pipeline Company 14100 Huntersville-Concord Rd. Paw Creek, NC 28078				
4. Phone ( )				6. Phone ( )				
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone			
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone			
13. Designated T/S/D Facility Name and Site Address CNS Landfill 5105 Worehead Rd Concord, NC 28027			14. US EPA ID Number 784-262-6371		15. Facility's Phone			
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity	20. Unit Wt/Vol
					No.	Type		
a. contaminated soil			5010-20-12076		2/17/2011			
b.							2157	
c.							42210	
21. Additional Descriptions for Materials Listed Above								
22. Special Handling Instructions and Additional Information REG. STAT 100170								
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.								
Printed/Typed Name Jamie Lottis				Signature <i>J. Lottis</i>		Month Day Year 02 24 11		
24. Transporter #1: Acknowledgement of Receipt of Materials								
Printed/Typed Name Darren Sidas				Signature <i>Darren Sidas</i>		Month Day Year 02 24 11		
25. Transporter #2: Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month Day Year		
26. Discrepancy Indication Space CNS LANDFILL 5105 WOREHEAD RD CONCORD, NC 28027 784-262-6371								
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)								
Printed/Typed Name Kerry				Signature <i>Kerry</i>		Month Day Year 02 24 11		

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033  
RS-F15

**Table 6**  
**Summary of Liquids Shipped to**  
**Aaron Oil**  
**(September 12, 2020 - February 28, 2021)**

Colonial Pipeline Company  
2020-L1-SR2448  
Huntersville, North Carolina

<b>Date</b>	<b>Gallons</b>	<b>Bill of Lading No.</b>	<b>Manifest Previously Received</b>
9/12/2020	5,191	154376	X
9/17/2020	3,497	154379	X
9/25/2020	4,911	154378	X
9/30/2020	5,333	155096	X
10/4/2020	2,450	154501	X
10/5/2020	4,873	154502	X
10/21/2020	5,200	147321	X
10/29/2020	5,000	155094	X
11/2/2020	5,363	154503	X
11/3/2020	5,500	154387	X
11/5/2021	5,300	155097	X
11/5/2020	4,755	155166	X
11/7/2020	5,000	155167	X
11/9/2021	5,500	155098	X
11/9/2020	5,000	155168	X
11/11/2020	5,000	155169	X
11/12/2021	5,000	155099	X
11/14/2020	5,000	155171	X
11/17/2020	5,224	155170	X
11/19/2020	5,286	155173	X
12/1/2020	5,500	154382	X
12/23/2020	5,191	155174	X
1/12/2021	2,500	155661	X
1/19/2021	5,000	155665	X
1/20/2021	5,000	155666	X
1/20/2021	5,400	155667	X
1/21/2021	5,000	155672	X
1/25/2021	5,500	155172	X
1/25/2021	5,254	155670	X
1/26/2021	4,050	155671	X
2/2/2021	5,000	155668	
2/10/2020	5,000	155669	
2/17/2021	7,700	155304	
2/19/2021	5,000	155305	
2/23/2021	5,000	155311	
<b>Total</b>	<b>174,478</b>		



**Section 1 SHIPPER / GENERATOR** (Generator completes all of Section 1)

a. Company Name: Colonial Pipeline CO b. Generating Location: Hunterville  
 c. Address: 224 KENNEDY CIR d. Address: 14108 HUNTERS VILLI CONCORD RD  
Charlotte NC 28214 Hunterville NC 28078  
 e. Phone No: 704 30 7777 Contact: John Colburn f. Shippers 24 Hour Emergency Ph# 704 30 7777

g. D.O.T. Description of Material:  UN1993 Flammable Liquid NOS (contains less than 1% methanol) Per 114  
 h. Quantity \_\_\_\_\_ Units: G Type: TT See back for examples

i. AOC Description of Material: Section: 

1	2	3	4
---	---	---	---

 Containers: Type  
 MD - Metal Drum  
 T - Truck  
 O - Other  
 RC - Rail Car  
 Units  
 Y3 - Cubic Yards  
 G - Gallons  
 B - Barrels  
 O - Other

j. Generator / Shipper U.S. EPA # NC05058108 (if applicable)  
 k.  Unused petroleum contaminated water / solids destined for recovery (IF CHECKED FILL OUT SECTION 2)

**SHIPPER / GENERATOR'S CERTIFICATION:** This is to certify that the above named material is properly classified, described, packaged, marked, and labeled, and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 and 279 or any applicable federal, state, and local laws. Also, if the material being shipped is used oil, generator certifies that the used oil does not contain any detectable levels of P.C.B.'s This transaction is subject to our terms and conditions attached. Generator / Shipper further certifies that the AOC description code on this manifest is accurately described based on "Accepted Materials" on back of this manifest.

John Colburn Signature Date 2-2-21

**Section 2 PCW Section** (Generator complete a-c, only if box j. was checked in section 1)

PCW Sources  
 a. Tank number(s) / Tank service (gasoline, diesel, etc.)  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 b. Estimate % solids \_\_\_\_\_  
 c. 100% Pumpable Upon Delivery  yes  no

Other Source Information Look Site

\*The term (PCW) means waters containing unused virgin petroleum products and includes tank draw waters, tank cleaning waters / sludge, tank bottoms, etc.

**Certification**  
 I hereby certify with each shipment of PCW that the PCW does not contain levels of toxics above those found in sources of the PCW and that the PCW originates from an unleaded fuel source.

John Colburn Signature Date 2-2-21

**Section 3 TRANSPORTER** (Generator complete a-c, Transporter I d-e. Transporter II f-j)

**TRANSPORTER I**  
 a. Name: STAT INC  
 b. Address: 755 Hickory Blvd  
Lenoir NC 28645  
 c. Phone No: 888 391 3301 d. U.S. EPA # NC09877112

**TRANSPORTER II**  
 f. Name: \_\_\_\_\_  
 g. Address: \_\_\_\_\_  
 h. Phone No: \_\_\_\_\_ i. U.S. EPA # \_\_\_\_\_

**Acknowledgement of Receipt of Materials**  
 e.  John Colburn Driver Signature Date 02-08-2021

**Acknowledgement of Receipt of Materials**  
 j. \_\_\_\_\_ Driver Signature Date \_\_\_\_\_

**Section 4 DESTINATION** (Generator completes)

a. Site Name: Aaron Oil  
 b. Physical Address: 713 Bill Myers Dr  
Saratoga AL 36582  
 c. Phone No.: 800 239 4019 U.S. EPA # AL08981033  
 d. Discrepancy Indication Space: \_\_\_\_\_

**Section 5 BILLING INFO** (if different from section 1)

a. Name: \_\_\_\_\_  
 b. Mailing Address: \_\_\_\_\_  
 c. Phone No.: \_\_\_\_\_ Contact \_\_\_\_\_

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

John Colburn Name of Authorized Agent Signature Date 2-2-21



**Section 1 SHIPPER / GENERATOR** (Generator completes all of Section 1)

a. Company Name: Cornol Pipeline CO b. Generating Location: Huntsville  
 c. Address: 824 Linstead Cir d. Address: 74108 Huntsville Corvado ED  
Charlotte NC 28214 Huntsville AL 35898  
 e. Phone No: 704 320 7777 Contact: Shirley Colburn f. Shippers 24 Hour Emergency Ph# 704 320 7777

g. D.O.T. Description of Material:  UNPA3 Flammable Liquid NOS (contains less than 1% gas/1.0 liter)  
 h. Quantity 555 Gallons Units: G Type: T See back for examples

i. AOC Description of Material:  
 Section: 

1	2	3	4
---	---	---	---

 Containers: 

Type
MD - Metal Drum
T - Truck
O - Other
RC - Rail Car
Units
Y3 - Cubic Yards
G - Gallons
B - Barrels
O - Other

  
 See back for definitions (enter correct letter)

j. Generator / Shipper U.S. EPA # MO051058168 (if applicable)  
 k.  Unused petroleum contaminated water / solids destined for recovery (IF CHECKED FILL OUT SECTION 2)

**SHIPPER / GENERATOR'S CERTIFICATION:** This is to certify that the above named material is properly classified, described, packaged, marked, and labeled, and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 and 279 or any applicable federal, state, and local laws. Also, if the material being shipped is used oil, generator certifies that the used oil does not contain any detectable levels of P.C.B.'s This transaction is subject to our terms and conditions attached. Generator / Shipper further certifies that the AOC description code on this manifest is accurately described based on "Accepted Materials" on back of this manifest.

Aaron Harris 2-10-21  
 Generator Authorized Agent Name Signature Date

**Section 2 PCW Section** (Generator complete a-c, only if box j. was checked in section 1)

PCW Sources  
 a. Tank number(s) / Tank service (gasoline, diesel, etc.)  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 b. Estimate % solids \_\_\_\_\_  
 c. 100% Pumpable Upon Delivery  yes  no

Other Source Information Leak site

\*The term (PCW) means waters containing unused virgin petroleum products and includes tank draw waters, tank cleaning waters / sludge, tank bottoms, etc.

**Certification**

I hereby certify with each shipment of PCW that the PCW does not contain levels of toxics above those found in sources of the PCW and that the PCW originates from an unleaded fuel source.

Aaron Harris 2-10-21  
 Generator Authorized Agent Name Signature Date

**Section 3 TRANSPORTER** (Generator complete a-c, Transporter I d-e, Transporter II f-j)

**TRANSPORTER I**  
 a. Name: SXT IM  
 b. Address: 255 Hickory Blvd  
Levitt NC 28055  
 c. Phone No: 704 391 7000 d. U.S. EPA # MO051058168

**TRANSPORTER II**  
 f. Name: \_\_\_\_\_  
 g. Address: \_\_\_\_\_  
 h. Phone No: \_\_\_\_\_ i. U.S. EPA # \_\_\_\_\_

**Acknowledgement of Receipt of Materials**  
 e.  Shirley Colburn 02/10/21  
 Driver Signature Date

**Acknowledgement of Receipt of Materials**  
 j. \_\_\_\_\_  
 Driver Signature Date

**Section 4 DESTINATION** (Generator completes)

a. Site Name: Levitt  
 b. Physical Address: 7361 Hickory Tr  
Selma AL 36822  
 c. Phone No.: 205 234 4444 U.S. EPA # AL098380233  
 d. Discrepancy Indication Space: \_\_\_\_\_

**Section 5 BILLING INFO** (if different from section 1)

a. Name: \_\_\_\_\_  
 b. Mailing Address: \_\_\_\_\_  
 c. Phone No.: \_\_\_\_\_ Contact \_\_\_\_\_

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Melvin Brian 2-10-21  
 Name of Authorized Agent Signature Date

**Section 1 SHIPPER / GENERATOR** (Generator completes all of Section 1)

a. Company Name: Colonial Pipeline Co b. Generating Location: High Falls, NC  
 c. Address: 7524 Kingswood Cir d. Address: 11058 Huntersville, NC 28078  
Charlotte, NC 28214  
 e. Phone No: 704 320 7777 Contact: John Colburn f. Shippers 24 Hour Emergency Ph# 704 320 7777  
 g. D.O.T. Description of Material: HM 158720 UN193 Hazardous Liquid (MSL Category 2) (P) (ref. 100) See back for examples  
 h. Quantity 158720 Units: GP Type: TI Containers: 

Type
MD - Metal Drum
T - Truck
O - Other
RC - Rail Car
Units
Y3 - Cubic Yards
G - Gallons
B - Barrels
O - Other

  
 i. AOC Description of Material: Section: 

1	2	3	4
---	---	---	---

 See back for definitions (enter correct letter)  
 j. Generator / Shipper U.S. EPA # NC05038108 (if applicable)  
 k.  Unused petroleum contaminated water / solids destined for recovery (IF CHECKED FILL OUT SECTION 2)

**SHIPPER / GENERATOR'S CERTIFICATION:** This is to certify that the above named material is properly classified, described, packaged, marked, and labeled, and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 and 279 or any applicable federal, state, and local laws. Also, if the material being shipped is used oil, generator certifies that the used oil does not contain any detectable levels of P.C.B.'s This transaction is subject to our terms and conditions attached. Generator / Shipper further certifies that the AOC description code on this manifest is accurately described based on "Accepted Materials" on back of this manifest.

**X** Generator Authorized Agent Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

**Section 2 PCW Section** (Generator complete a-c, only if box j. was checked in section 1)

PCW Sources  
 a. Tank number(s) / Tank service (gasoline, diesel, etc.)  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 b. Estimate % solids \_\_\_\_\_  
 c. 100% Pumpable Upon Delivery  yes  no  
 Other Source Information Lake Site

\*The term (PCW) means waters containing unused virgin petroleum products and includes tank draw waters, tank cleaning waters / sludge, tank bottoms, etc.

**Certification**  
 I hereby certify with each shipment of PCW that the PCW does not contain levels of toxics above those found in sources of the PCW and that the PCW originates from an unleaded fuel source.

Generator Authorized Agent Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

**Section 3 TRANSPORTER** (Generator complete a-c, Transporter I d-e. Transporter II f-j)

<p><b>TRANSPORTER I</b></p> <p>a. Name: <u>SIAT TR</u>          b. Address: <u>250 Hickory Blvd</u>  <u>Lenoir, NC 29645</u>          c. Phone No: <u>813 392 2244</u> d. U.S. EPA #: <u>NC00070112</u></p>	<p><b>TRANSPORTER II</b></p> <p>f. Name: _____          g. Address: _____          h. Phone No: _____ i. U.S. EPA #: _____</p>
---	--

**Acknowledgement of Receipt of Materials**  
 e. **X** Driver Signature \_\_\_\_\_ Date \_\_\_\_\_  
 j. Driver Signature \_\_\_\_\_ Date \_\_\_\_\_

**Section 4 DESTINATION** (Generator completes)

a. Site Name: Acton Oil  
 b. Physical Address: 713 Bill Myers Dr  
Spokane, WA 99202  
 c. Phone No.: 509 325 4541 U.S. EPA #: WA83A-33  
 d. Discrepancy Indication Space: \_\_\_\_\_

**Section 5 BILLING INFO** (if different from section 1)

a. Name: \_\_\_\_\_  
 b. Mailing Address: \_\_\_\_\_  
 c. Phone No.: \_\_\_\_\_ Contact: \_\_\_\_\_

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

**X** Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_



**Material Manifest / Bill of Lading**  
**NO. 155305**

**Section 1 SHIPPER / GENERATOR** (Generator completes all of Section 1)

a. Company Name: General Public Co b. Generating Location: Huntsville  
 c. Address: 704 Kentwood Cir d. Address: 14104 Huntsville Concord Rd  
Clarksville TN 37024 Huntsville TN 37078  
 e. Phone No: 704 320 7777 Contact: John Colburn f. Shippers 24 Hour Emergency Ph# 704 320 7777  
 g. D.O.T. Description of Material:  HM UNAPP'S Flammable Liquid (contains less than 10% gas/liquid) (6 III)  
 h. Quantity 15500 Units: GT Type: TI See back for examples  
 i. AOC Description of Material: Section: 

1	2	3	4
---	---	---	---

 Containers: 

Type
MD - Metal Drum
T - Truck
O - Other
RC - Rail Car
Units
Y3 - Cubic Yards
G - Gallons
B - Barrels
O - Other

  
 j. Generator / Shipper U.S. EPA # NC057658160 (if applicable)  
 k.  Unused petroleum contaminated water / solids destined for recovery (IF CHECKED FILL OUT SECTION 2)

**SHIPPER / GENERATOR'S CERTIFICATION:** This is to certify that the above named material is properly classified, described, packaged, marked, and labeled, and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 and 279 or any applicable federal, state, and local laws. Also, if the material being shipped is used oil, generator certifies that the used oil does not contain any detectable levels of P.C.B.'s This transaction is subject to our terms and conditions attached. Generator / Shipper further certifies that the AOC description code on this manifest is accurately described based on "Accepted Materials" on back of this manifest.

Janice Lolla 02-19-2021  
 Generator Authorized Agent Name Signature Date

**Section 2 PCW Section** (Generator complete a-c, only if box j. was checked in section 1)

PCW Sources  
 a. Tank number(s) / Tank service (gasoline, diesel, etc.)  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 b. Estimate % solids \_\_\_\_\_  
 c. 100% Pumpable Upon Delivery yes  no   
 Other Source Information Leak Site

\*The term (PCW) means waters containing unused virgin petroleum products and includes tank draw waters, tank cleaning waters / sludge, tank bottoms, etc.

**Certification**  
 I hereby certify with each shipment of PCW that the PCW does not contain levels of toxics above those found in sources of the PCW and that the PCW originates from an unleaded fuel source.

Janice Lolla 02-19-2021  
 Generator Authorized Agent Name Signature Date

**Section 3 TRANSPORTER** (Generator complete a-c, Transporter I d-e. Transporter II f-j)

TRANSPORTER I		TRANSPORTER II	
a. Name: <u>SAT INC</u>	d. U.S. EPA # <u>110990799412</u>	f. Name: _____	i. U.S. EPA # _____
b. Address: <u>2550 Hickory Blvd</u> <u>Leicester TN 37045</u>		g. Address: _____	
c. Phone No: <u>878 326 2304</u>		h. Phone No: _____	

**Acknowledgement of Receipt of Materials**  
 e.  John Colburn 02-19-2021  
 Driver Signature Date  
 j. \_\_\_\_\_  
 Driver Signature Date

**Section 4 DESTINATION** (Generator completes) **Section 5 BILLING INFO** (if different from section 1)

a. Site Name: Acme Oil a. Name: \_\_\_\_\_  
 b. Physical Address: 73 811 Main St  
Spartanburg SC 29522 b. Mailing Address: \_\_\_\_\_  
 c. Phone No.: 803 201 1144 U.S. EPA # 11098318233 c. Phone No.: \_\_\_\_\_ Contact \_\_\_\_\_  
 d. Discrepancy Indication Space: \_\_\_\_\_

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.  
 John Colburn 02-19-2021  
 Name of Authorized Agent Signature Date

VT # 43

**Section 1 SHIPPER / GENERATOR** (Generator completes all of Section 1)

a. Company Name: Colonial Pipeline Co b. Generating Location: Huntersville  
 c. Address: 7524 Kenstead Cir d. Address: 14108 Huntersville Concord RD  
Charlotte NC 28214 Huntersville NC 28078  
 e. Phone No: 704 320 7777 Contact: John Calbreath f. Shippers  
 24 Hour Emergency Ph# 704 320 7777

g. D.O.T. Description of Material: HM UN1993 Flammable Liquid NOS (contains less than 10% gas/water) Pct III  
 h. Quantity: EST 5000 Units: GC Type: TT  
 See back for examples.

i. AOC Description of Material: Section: 1 2 3 4  
 See back for definitions (enter correct letter)

j. Generator / Shipper U.S. EPA # NC057058168 (if applicable)  
 k.  Unused petroleum contaminated water / solids destined for recovery (IF CHECKED FILL OUT SECTION 2)

- |                  |
|------------------|
| Type             |
| MD - Metal Drum  |
| T - Truck        |
| O - Other        |
| RC - Rail Car    |
| Units            |
| Y3 - Cubic Yards |
| G - Gallons      |
| B - Barrels      |
| O - Other        |

SHIPPER / GENERATOR'S CERTIFICATION: This is to certify that the above named material is properly classified, described, packaged, marked, and labeled, and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 and 279 or any applicable federal, state, and local laws. Also, if the material being shipped is used oil, generator certifies that the used oil does not contain any detectable levels of P.C.B.'s This transaction is subject to our terms and conditions attached. Generator / Shipper further certifies that the AOC description code on this manifest is accurately described based on "Accepted Materials" on back of this manifest.

X Adam Harris alch 2-23-21  
 Generator Authorized Agent Name Signature Date

**Section 2 PCW Section** (Generator complete a-c, only if box j. was checked in section 1)

PCW Sources  
 a. Tank number(s) / Tank service (gasoline, diesel, etc.)  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 No. \_\_\_\_\_ Service \_\_\_\_\_  
 b. Estimate % solids \_\_\_\_\_  
 c. 100% Pumpable yes no  
 Upon Delivery    
 Other Source Information Leak SITE

\*The term (PCW) means waters containing unused virgin petroleum products and includes tank draw waters, tank cleaning waters / sludge, tank bottoms, etc.

**Certification**  
 I hereby certify with each shipment of PCW that the PCW does not contain levels of toxics above those found in sources of the PCW and that the PCW originated from an unleaded fuel source.

Adam Harris alch 2-23-21  
 Generator Authorized Agent Name Signature Date

**Section 3 TRANSPORTER** (Generator complete a-c, Transporter I d-e, Transporter II f-j)

**TRANSPORTER I**  
 a. Name: STAT INC  
 b. Address: 2550 Hickory Blvd  
Lenoir NC 28645  
 c. Phone No: 800 321 2304 d. U.S. EPA # NC098079942  
 Acknowledgement of Receipt of Materials  
 e. X [Signature] 2/23/21  
 Driver Signature Date

**TRANSPORTER II**  
 f. Name: \_\_\_\_\_  
 g. Address: \_\_\_\_\_  
 h. Phone No: \_\_\_\_\_ i. U.S. EPA # \_\_\_\_\_  
 Acknowledgement of Receipt of Materials  
 j. \_\_\_\_\_  
 Driver Signature Date

**Section 4 DESTINATION** (Generator completes)

a. Site Name: Aaron Oil  
 b. Physical Address: 713 Bill Myers Dr  
Spartanburg SC 29582  
 c. Phone No.: 800 239 4599 U.S. EPA # NC098380233  
 d. Discrepancy Indication Space: AOC Desc could be listed differently

**Section 5 BILLING INFO** (if different from section 1)

a. Name: \_\_\_\_\_  
 b. Mailing Address: \_\_\_\_\_  
 c. Phone No.: \_\_\_\_\_ Contact \_\_\_\_\_

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

X Mickey Evans [Signature] 03/01/21  
 Name of Authorized Agent Signature Date