Colonial Pipeline Company

Jeff D. Morrison
Environmental Program Specialist

Phone: (770) 819.3566
e-mail: jmorrison@colpipe.com

December 30, 2020

To: Dan Bowser, et al.

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

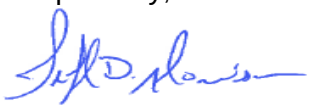
Dear Dan,

Colonial Pipeline Company (Colonial) is pleased to transmit the Monthly Monitoring Report as required by the September 25, 2020, Notice of Violation regarding the above-referenced incident. The report was prepared in conjunction with Apex Engineering, P.C.

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 myself at 770.819.3566 / jmorrison@colpipe.com or John Culbreath at 704.399.5259 / jculbrea@colpipe.com.

Respectfully,



Jeff D. Morrison
Environmental Program Specialist

APEX

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

Huntersville, Mecklenburg County, North Carolina 28078

December 30, 2020

Apex Job No.: CPC20126

Prepared for:

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

Prepared by:

Apex Companies, LLC
(d.b.a Apex Engineering, P.C.)
5900 Northwoods Business Parkway, Suite 5900-O
Charlotte, North Carolina 28269

Prepared By:

Andrew Street, CHMM, RSM
Senior Project Manager

Reviewed By:

Tom Naumann, PG
Senior Scientist
NC License No. 2405

NORTH CAROLINA LICENSED SEAL 2405 TN 12/30/20 GEOLOGIST THOMAS EDWARD NAUMANN

Matt Gorman, PE
Program Manager
NC License No. 041588

Table of Contents

1.0 INTRODUCTION 1
1.1 Site History And Characterization 1
2.0 SOIL SAMPLING ACTIVITIES AND RESULTS 2
3.0 WELL GAUGING ACTIVITIES 2
4.0 GROUNDWATER INVESTIGATION ACTIVITIES AND RESULTS 2
5.0 SURFACE WATER INVESTIGATION ACTIVITIES AND RESULTS 3
6.0 REMEDIATION ACTIVITIES SUMMARY 4
6.1 Air Sparge System 4
6.2 Free Product Recovery Activities 4
7.0 CONCLUSIONS 4

Figures

Figure 1 Site Location Map
Figure 2 Site Plan
Figure 3 Potential Receptor Map
Figure 4 Pipeline Excavation Soil Sampling Results
Figure 5 Groundwater Potentiometric Surface Map
Figure 6 Free Product Distribution Map
Figure 7 Monitoring Well Sampling Results
Figure 8 Benzene Isoconcentration Map
Figure 9 Diisopropyl Ether Isoconcentration Map
Figure 10 Methyl-Tert Butyl Ether Isoconcentration Map
Figure 11 Toluene Isoconcentration Map
Figure 12 Total Xylenes Isoconcentration Map
Figure 13 C_5-C_8 Aliphatics Isoconcentration Map
Figure 14 Water Supply Well Sampling Results
Figure 15 Air Sparge System Layout

Table

Table 1 Summary of Pipeline Excavation Soil Sampling Results
Table 2 Summary of Recovery Well Gauging Data
Table 3 Summary of Monitoring Well Gauging Data
Table 4 Summary of Monitoring Well Sampling Results
Table 5 Summary of Water Supply Well Sampling Results

Table of Contents (Continued)

Appendices

Appendix A Laboratory Analytical Reports
Appendix B Boring Logs
Appendix C Groundwater Sampling Logs
Appendix D Surface Water Sampling Information

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). An Initial Assessment Report (IAR) prepared for the Site was submitted to the North Carolina Department of Environmental Quality (NCDEQ) on October 30, 2020 and a Monthly Monitoring Report was submitted to NCDEQ on November 30, 2020. This report details site monitoring and free product recovery activities and results subsequent to those reported in the November 30, 2020 Monthly Monitoring Report. 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 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.

A typical hydrogeologic unit in the Piedmont province is characterized as a single water-bearing zone formed by the saprolite overburden (residuum) and the underlying consolidated bedrock. Saprolite is formed from in-situ chemical weathering of the parent bedrock and exhibits relic structures and textures of the parent rock. The saprolite hydrostratigraphic unit acts as a reservoir to receive and store water that discharges to nearby surface water bodies and recharges the underlying bedrock unit. Groundwater can occur under water table conditions in the saprolite where it fluctuates in response to recharge. Saprolite may also act hydraulically as a semi-confining unit if its permeability is much less than the permeability of the underlying bedrock. Groundwater in the bedrock unit can occur under confined, semi-confined, or unconfined conditions. Within the bedrock unit, groundwater is transmitted through, and stored in, secondary joints and fractures. Secondary porosity of the bedrock unit is dependent on size, density, and interconnections of the fractures. Bedrock porosity is generally much less than the porosity of saprolite. Distribution and interconnections of fractures can control local groundwater flow directions and velocities in bedrock.

Based on risk-based rules established under House Bill 765, Risk Based Corrective Action (RBCA) Rules, which were established for releases from petroleum underground storage tanks (USTs), are also applicable to non-UST releases of petroleum. Under the RBCA 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

Pipeline excavation sampling was completed prior to backfilling of Line 1. Confirmation samples were collected at the excavation base and sidewalls on 25 foot spacing. Each soil sample was assigned a unique identification number and the sample location was surveyed. Soil samples underwent analysis for the presence of volatile organic compounds (VOCs) by EPA Method 8260D and volatile petroleum hydrocarbons (VPH) by the MADEP Method by Pace Analytical, LLC (Pace). Pipeline excavation soil sampling results are depicted on **Figure 4** and summarized in **Table 1**. Copies of laboratory analytical reports are provided in **Appendix A**. Residual petroleum soil impacts left in place will be addressed, as needed, as part of a Corrective Action Plan for Incident No. 95827.

3.0 WELL GAUGING ACTIVITIES

The recovery well pumping system was shut down for approximately 24 hours on November 23, 2020 to facilitate gauging of the monitoring and recovery well network under steady state conditions. Surficial groundwater at the Site is estimated to flow in a general northerly and southerly direction. The recovery well and monitoring well gauging data is presented in **Table 2** and **Table 3**, respectively. A groundwater potentiometric surface map is provided as **Figure 5** and a free product distribution map is provided as **Figure 6**.

4.0 GROUNDWATER INVESTIGATION ACTIVITIES AND RESULTS

Between August 27, 2020 through December 30, 2020, 78 monitoring wells were installed within and along the presumed outer perimeter of the release source area. A second round of monitoring well installation was initiated on October 30, 2020. The objective of the additional groundwater assessment work is to complete the horizontal and vertical delineation of petroleum impacted groundwater originating from Incident No. 95827. Monitoring wells were installed 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 to allow for geophysical borehole logging. Installation of two-inch inner casing, screen, and filter pack is planned to complete the deep monitoring points as Type III wells in the near term following geophysical borehole logging. Discrete or straddle packer sampling methodologies may be utilized as needed prior to completing the deep monitoring wells. Boring logs generated after the IAR and November 2020 Monthly Monitoring Report submissions are provided as **Appendix B**. Monitoring well construction is ongoing. Additional boring logs will be provided with the next monthly submittal. New monitoring wells will be incorporated into the groundwater sampling program and the sample results will be detailed in the forthcoming Comprehensive Site Assessment Report and each Monitoring Report at the prescribed interval.

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.

Each monitoring well present and without measurable free product at the time of the groundwater monitoring event for this reporting period was sampled between November 30 - December 3,

2020. Prior to collecting groundwater samples, each monitoring well was purged of three water column volumes using a dedicated, new high-density polyethylene bailer or a decontaminated stainless steel submersible pump. If a monitoring well went dry during the purging process, the monitoring well was subsequently sampled after adequate recharge. Field water quality measurements were recorded for pH, temperature, conductivity, dissolved oxygen, and oxidation reduction potential using a calibrated water quality meter. Water quality parameters were recorded in accordance with NCDEQ guidelines. 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 7**. Isoconcentration maps for benzene, diisopropyl ether, methyl-tert butyl ether, toluene, total xylenes, and C_5-C_8 Aliphatics are provided as **Figure 8** through **Figure 13**, respectively. Analytical results are summarized in **Table 4** and copies of the laboratory reports are provided in **Appendix A**.

Weekly water supply well (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 14** and summarized in **Table 5**. 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 water supply well samples. In accordance with NCDEQ guidance, and based on current data, CPC will continue sampling residential WSWs within 1,500 feet of the release area.

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. A groundwater seep and 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) during the reporting period on November 19, 2020, and December 1, 2020. Surface water samples were also collected from groundwater seep location (SW Seep) and the receiving ephemeral stream (SW Confluence) on the above mentioned dates.

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 System

Installation of an air sparge system is underway south of the release source area to decrease the migration of dissolved phase hydrocarbons south of the release source area and recovery well network. At present 14 air sparge wells and 11 vent wells have been installed (**Figure 15**). Trailer and skid mounted air sparge equipment will be utilized as an interim remedial measure until NCDEQ approval of the Corrective Action Plan for Incident No. 95827.

6.2 Free Product Recovery Activities

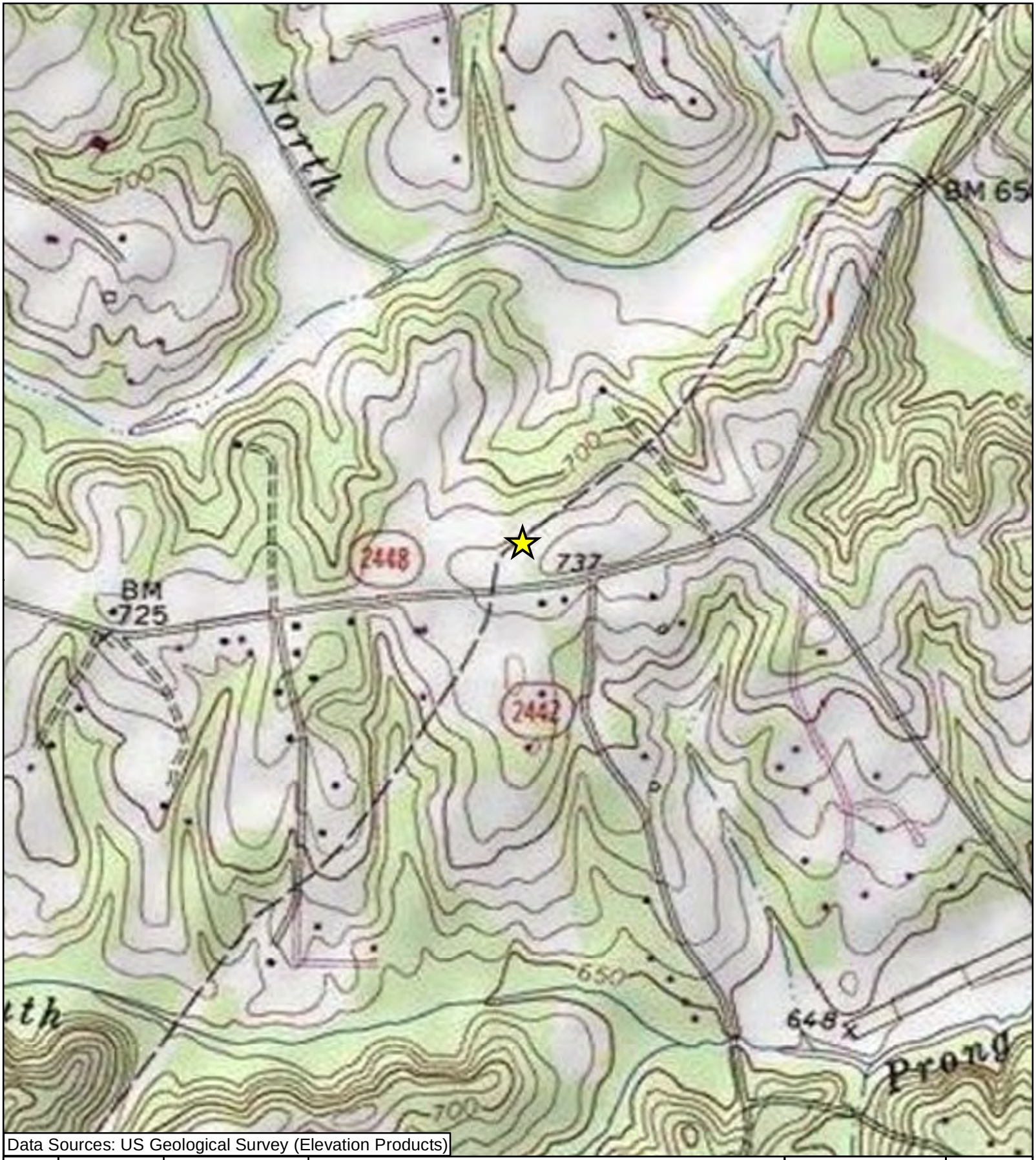
A total of 48 recovery wells have been installed within the release source area. As of December 29, 2020, approximately 492,339 gallons of gasoline free product and approximately 97,705 gallons of petroleum contact water have been recovered from the recovery well network.

Recovered free product and petroleum contact water were transported to the Midwest Gas Company located in Columbus, Ohio, and Aaron Oil Company, Inc. located in Saraland, Alabama for recycling and disposal, respectively. Copies of bills of lading and waste manifests covering the reporting period will be provided to NCDEQ under separate cover.

7.0 CONCLUSIONS

A total of 151 wells (78 monitoring wells, 48 recovery wells, and 25 air sparge system wells) were installed at the Site between August 27, 2020 and December 23, 2020. 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 on the 30th of each month until that schedule is revised. A Comprehensive Site Assessment Report will be submitted to the NCDEQ Mooresville Regional Office, the Mecklenburg County Public Health Director, and the Manager for the Town of Huntersville, North Carolina by January 20, 2021.

FIGURES



Data Sources: US Geological Survey (Elevation Products)

Checked By:	AS
Created By:	JC
Scale:	1 " = 754 FT
Date/Time:	12/28/2020; 14:58
Project No.:	CPC20126

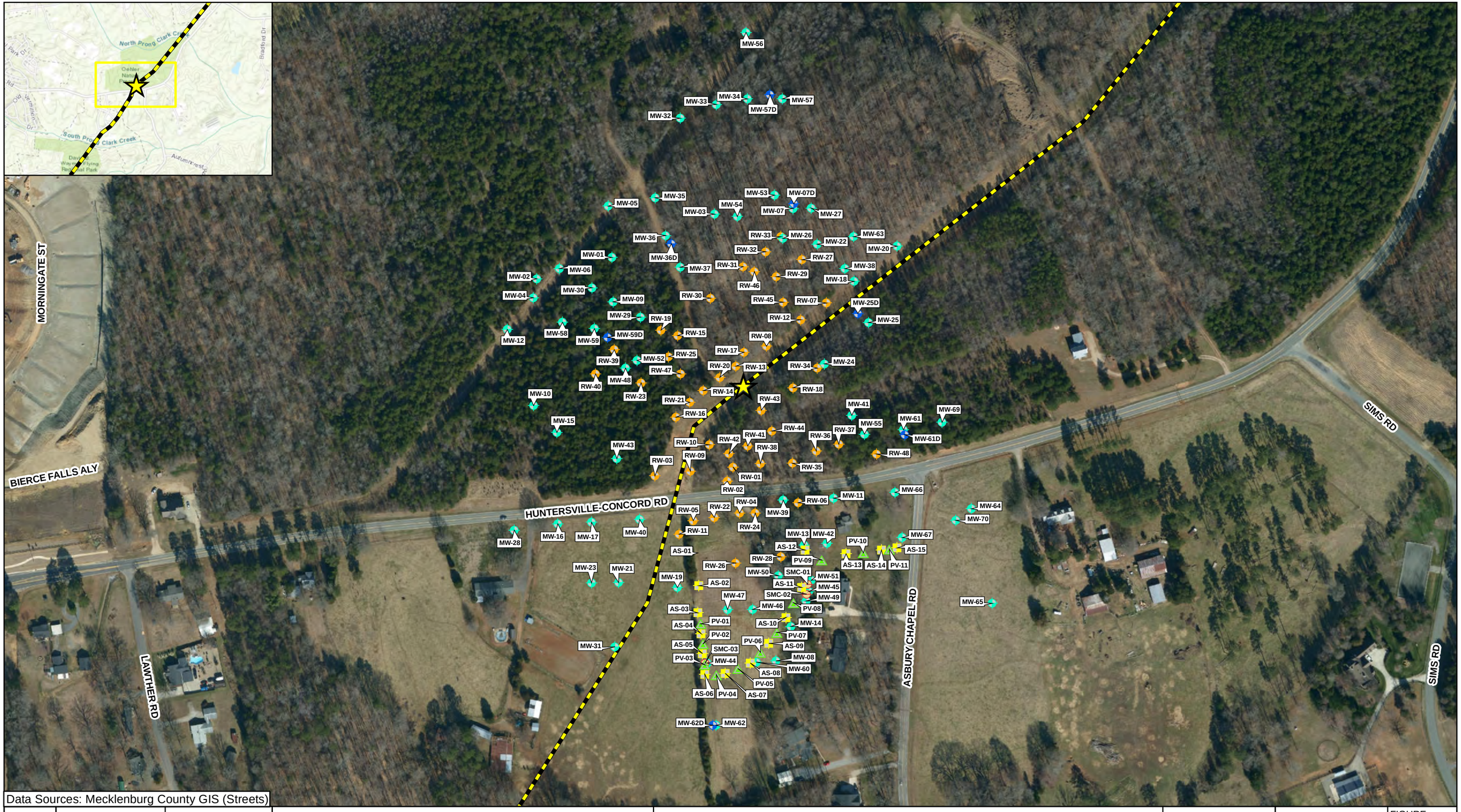
Site Location Map
Colonial Pipeline Company
2020-L1-SR2448 Release
Huntersville, North Carolina

0 405 810 1,620 2,430 Feet

Figure
1

Release Site

APEX



Data Sources: Mecklenburg County GIS (Streets)

Checked By:	AS
Created By:	JC
Scale:	1 " = 208 FT
Date/Time:	12/28/2020; 14:57
Project No.:	CPC20126

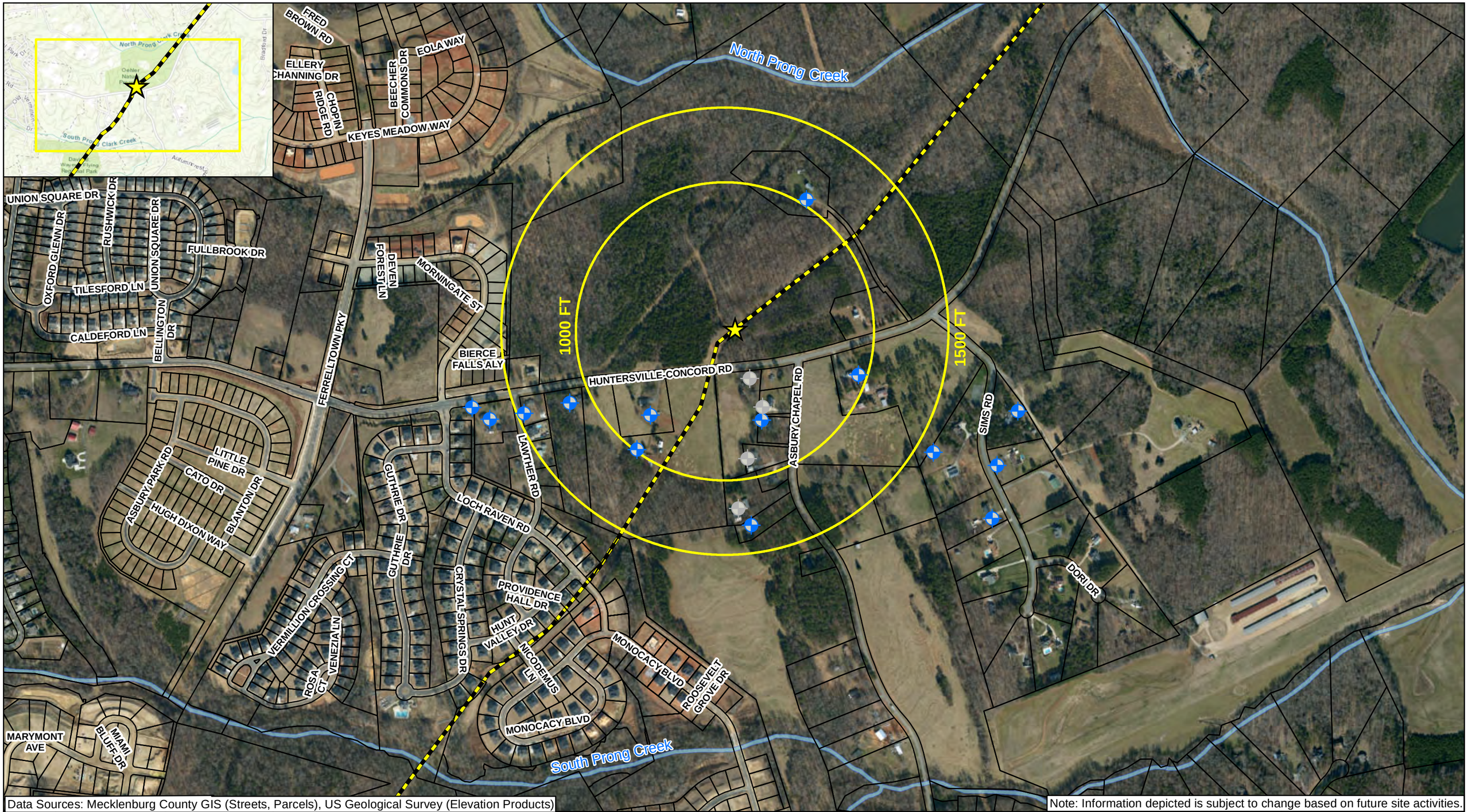
Site Plan
Colonial Pipeline Company
2020-L1-SR2448 Release
Huntersville, North Carolina

0 130 260 520 780 Feet

Release Site
Pipeline
Monitoring Well
Recovery Well
Monitoring Well (Deep)
Air Sparge
Vapor Point
Piezometer

APEX

FIGURE
2



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

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

Checked By:	AS
Created By:	BM
Scale:	1 " = 583 FT
Date/Time:	12/28/2020; 14:56
Project No.:	CPC20126

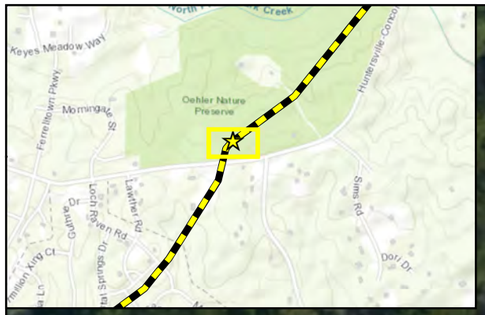
Potential Receptor Map
Colonial Pipeline Company
2020-L1-2448 Release
Huntersville, North Carolina

0 362.5 725 1,450 2,175 Feet

Release Site
Pipeline
Water Supply Well
Water Supply Well (Abandoned)
Parcel Boundaries

APEX

FIGURE 3



0-W
North wall
0-B
0-E
25-W
25-B
25-E
50-W
50-B
50-E
75-W
75-B
75-E
100-W
100-B
100-E
125-W
125-B
125-E
150-W
150-B
150-E
175-W
175-B
175-E
200-W
200-B
200-E
225-W
225-B
225-E
250-W
250-B
250-E
275-W
275-B
275-E
300-W
300-B
300-E
325-W
325-B
325-E
350-W
350-B
350-E
375-W
375-B
375-E
South Wall

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

Checked By:	AS
Created By:	BM
Scale:	1 " = 40 FT
Date/Time:	12/28/2020; 14:56
Project No.:	CPC20126

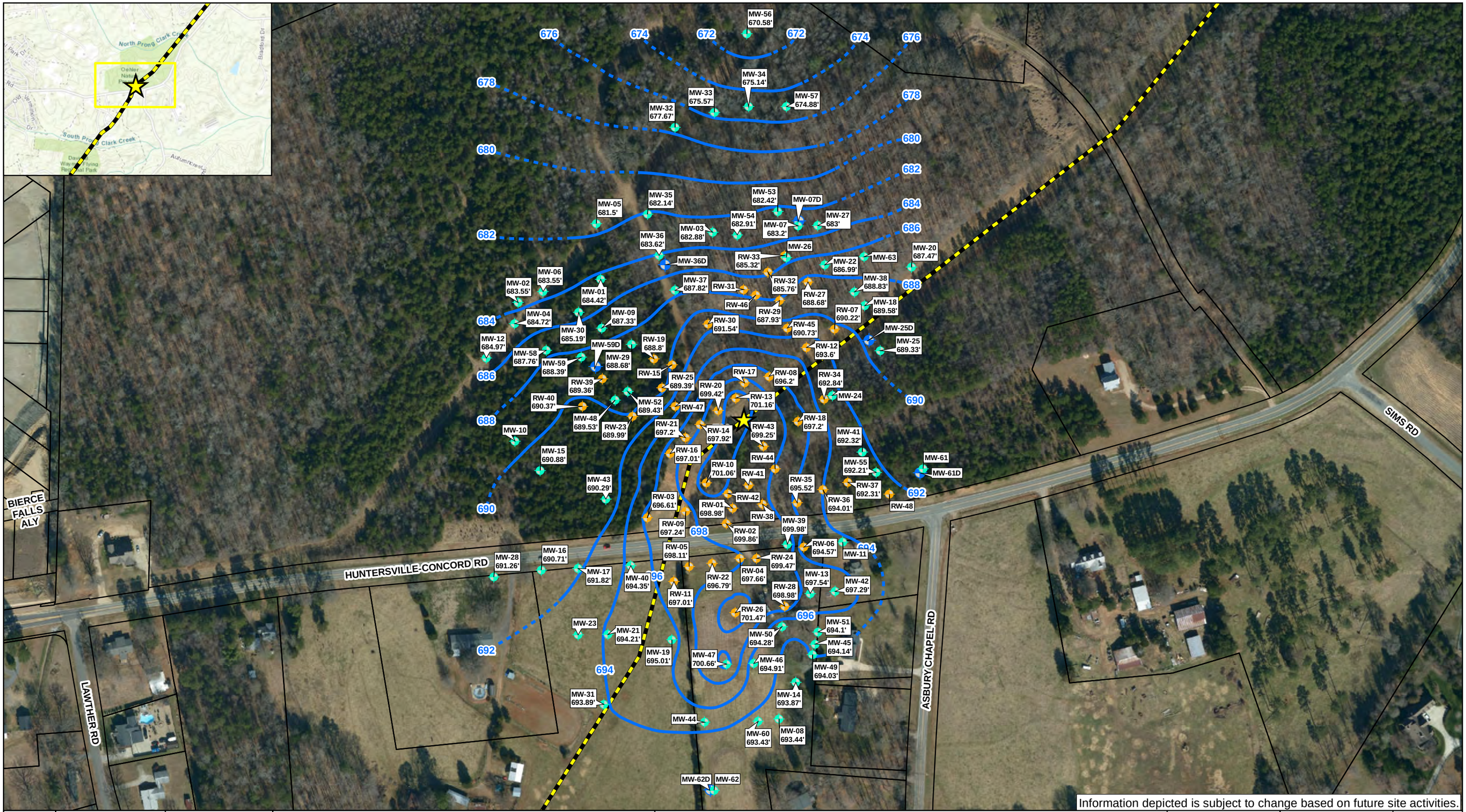
Pipeline Excavation Soil Sampling Results
Colonial Pipeline Company
2020-L1-SR2448
Huntersville, North Carolina

0 20 40 80 120 Feet

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

APEX

FIGURE
4



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

Checked By:	AS
Created By:	JC
Scale:	1 " = 192 FT
Date/Time:	12/28/2020; 14:54
Project No.:	CPC20126

Groundwater Potentiometric Surface Map

Colonial Pipeline Company

2020-L1-SR2448

Huntersville, North Carolina

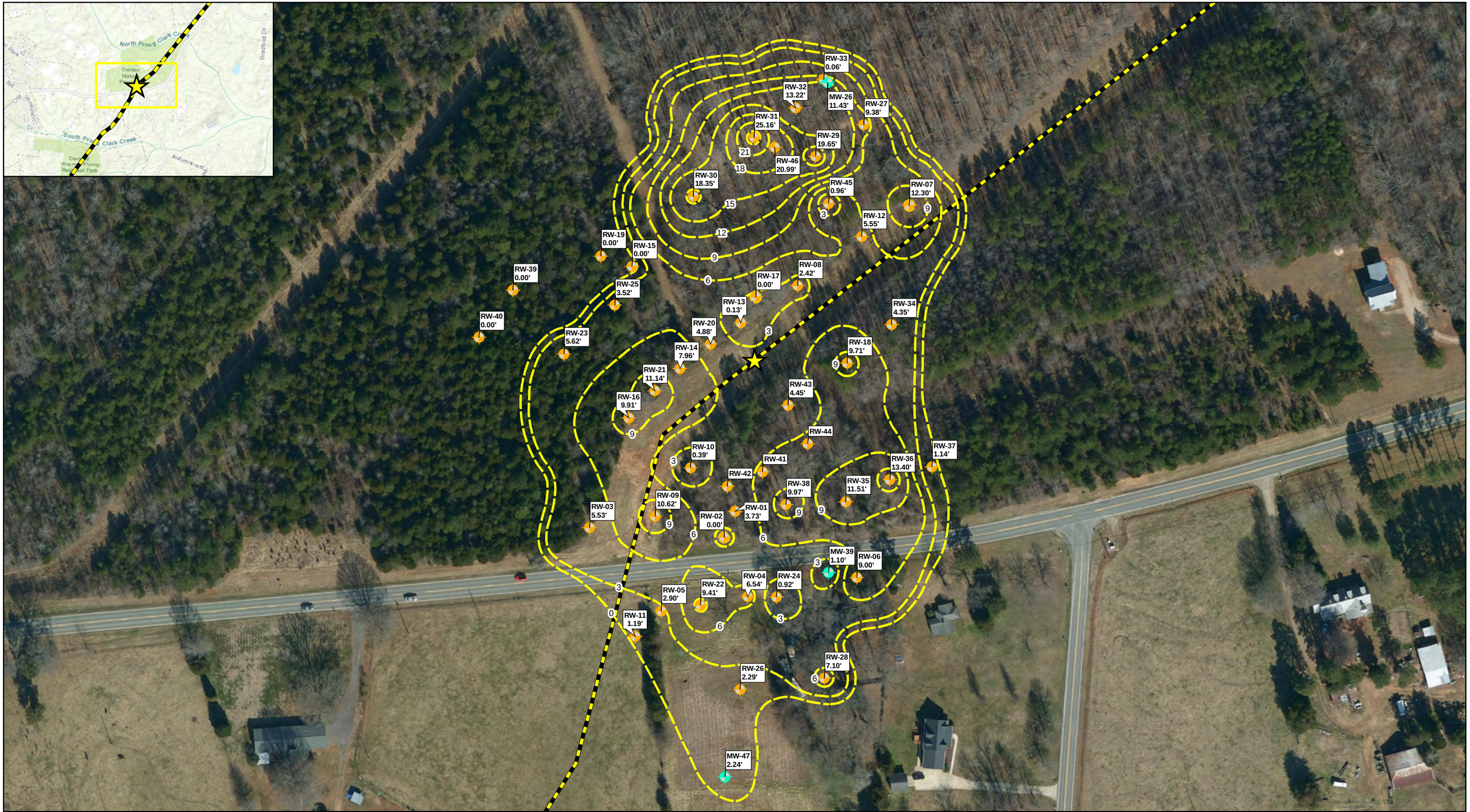
0 120 240 480 720 Feet

Release Site
Pipeline
Equipotential Contour (Ft. MSL) (Dashed where Inferred)
Monitoring Well
Deep Monitoring Well
Recovery Well
Parcel Boundaries

NOTES:
Contours based on monitoring well gauging data collected on November 23, 2020;
The following locations were not included to create this potentiometric surface map: MW-10 (Dry), MW-11 (Not Gauged), MW-23 (Not Surveyed), MW-24 (Not Gauged), MW-26 (Outlier), MW-44 (Not Surveyed), MW-61 (Not Surveyed), MW-62 (Not Surveyed), MW-63 (Not Surveyed), RW-15 (Outlier), RW-17 (Outlier), RW-31 (No Groundwater Encountered), RW-38 (No Groundwater Encountered), RW-41 (Dry), RW-42 (Dry), RW-44 (Dry), RW-46 (No Groundwater Encountered), RW-47 (Not Surveyed), RW-48 (Not Surveyed), MW-07D, MW-36D, and MW-57D, MW-59D, MW-61D, MW-62D (Bedrock Wells)
Contours interpolated using ArcMap Spatial Analyst (Kriging)

APEX

FIGURE 5



Checked By:	AS
Created By:	JC
Scale:	1 " = 113 FT
Date/Time:	12/29/2020; 20:36
Project No.:	CPC20126

Free Product Distribution Map
Colonial Pipeline Company
2020-L1-SR2448
Huntersville, North Carolina

0 70 140 280 420 Feet

Release Site
Pipeline
Apparent Free Product Thickness Contour
Recovery Well
Monitoring Well

NOTES:
Free Product Thickness determined from apparent thickness in wells only;
All thickness measurerments shown in feet;
All gauging measurements taken November 23, 2020;
RW-33 (outlier), RW-41 (dry), RW-42 (dry), RW-44 (dry) were not used in contouring was not used in contouring;
All monitoring wells not shown were also used in contouring;
Contours created using ArcGIS Spatial Analyst IDW interpolation method.

APEX

FIGURE 6

Checked By:	AS
Created By:	BM
Scale:	1 " = 67 FT
Date/Time:	12/28/2020; 15:21
Project No.:	CPC20126

Monitoring Well Sampling Results

Colonial Pipeline Company

2020-L1-SR2448

Huntersville, North Carolina

0 50 100 200 300 400 Feet

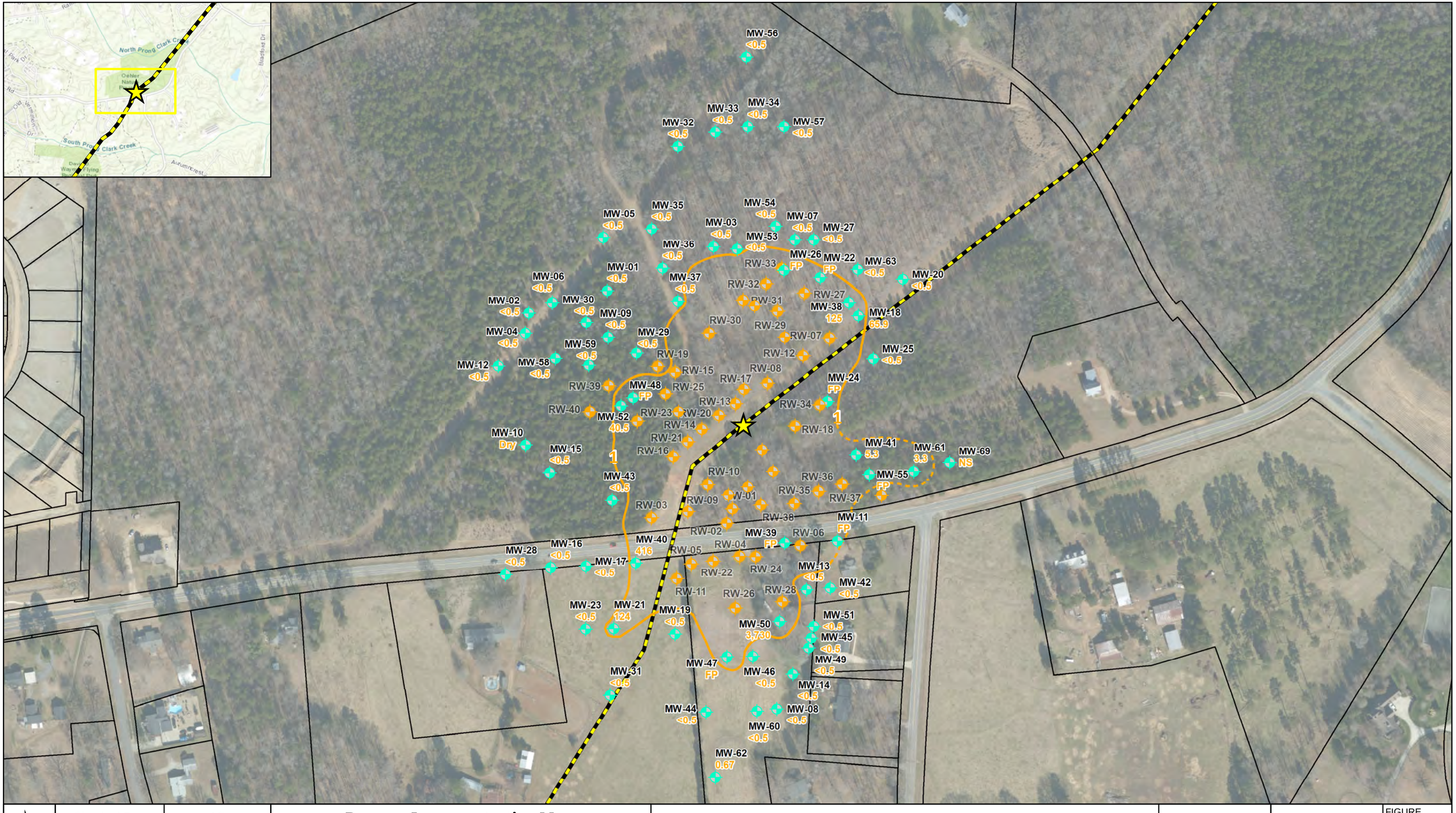
Release Site
Pipeline
Monitoring Well
Recovery Well

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.

APEX

FIGURE

7



Checked By:	AS
Created By:	BM
Scale:	1 " = 200 FT
Date/Time:	12/28/2020; 15:41
Project No.:	CPC20126

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

0 125 250 500 750 Feet

Release Site
Pipeline
1 Benzene Isocontour (Dashed where Inferred)

<0.5 Constituent Not Detected Above Laboratory Practical Quantitation Limit
40.5 Benzene Concentration (µg/L)
FP = Free Product
µg/L = Micrograms per Liter

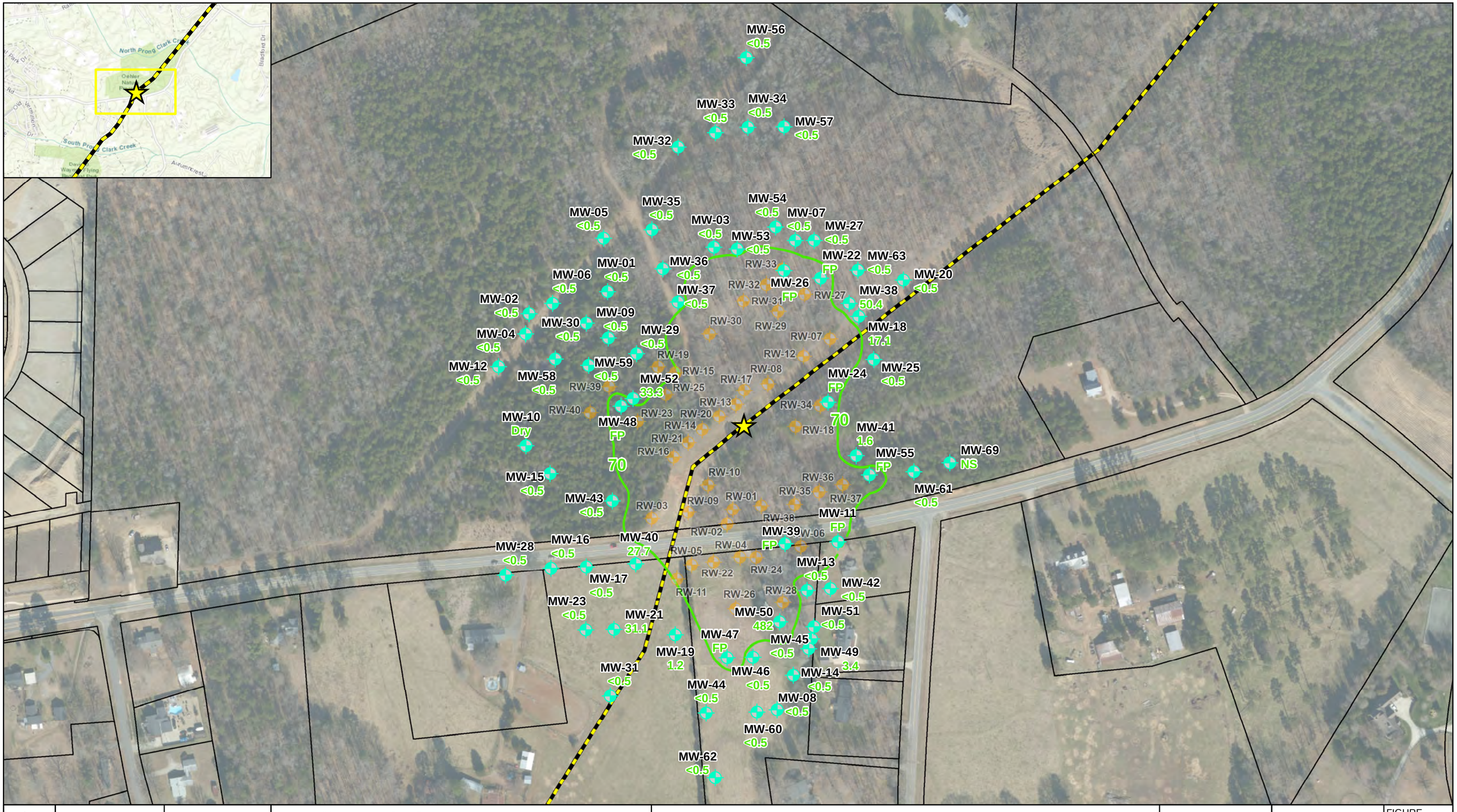
Recovery Well
Monitoring Well

NCDEQ 2L Standard for Benzene is 1 µg/L

Note: MW-69 was installed after sampling event.

APEX

FIGURE 8



Checked By:	AS
Created By:	BM
Scale:	1 " = 200 FT
Date/Time:	12/28/2020; 15:40
Project No.:	CPC20126

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

0 125 250 500 750 Feet

Release Site

Pipeline

70 Diisopropyl Ether Isocontour (Dashed where Inferred)

<0.5 Constituent Not Detected Above Laboratory Practical Quantitation Limit

17.1 Diisopropyl Ether Concentration (µg/L)

FP = Free Product

µg/L = Micrograms per Liter

Recovery Well

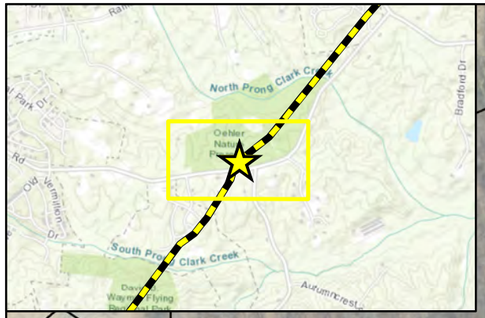
Monitoring Well

NCDEQ 2L Standard for Diisopropyl Ether is 70 µg/L

Note: MW-69 was installed after sampling event.

APEX

FIGURE 9



MW-56 <0.5
MW-33 <0.5
MW-34 <0.5
MW-57 <0.5
MW-32 <0.5
MW-05 <0.5
MW-35 <0.5
MW-54 <0.5
MW-03 <0.5
MW-07 <0.5
MW-27 <0.5
MW-53 <0.5
MW-63 <0.5
MW-01 <0.5
MW-36 <0.5
RW-33
MW-22 FP
MW-20 <0.5
MW-06 <0.5
RW-32
MW-26 FP
RW-27
MW-38 19.0
MW-02 <0.5
MW-37 <0.5
RW-31
MW-30 <0.5
MW-09 <0.5
RW-30
RW-29
MW-18 4.9
MW-04 <0.5
MW-29 <0.5
RW-07
MW-12 <0.5
MW-59 <0.5
RW-19
RW-12
MW-25 <0.5
MW-58 <0.5
RW-15
RW-08
RW-17
MW-24 FP
RW-39
MW-52 8.8
RW-25
RW-13
RW-34
RW-40
RW-23
RW-20
20
MW-10 Dry
MW-48 FP
RW-14
MW-41 <0.5
RW-21
RW-18
MW-15 <0.5
RW-16
20
MW-55 FP
MW-69 NS
RW-10
RW-36
MW-43 <0.5
RW-35
MW-61 <0.5
RW-03
RW-09
RW-01
RW-37
RW-38
MW-11 FP
MW-28 <0.5
MW-16 <0.5
MW-40 3.2
RW-02
MW-39 FP
RW-06
RW-05
RW-04
MW-13 <0.5
RW-22
RW-24
MW-17 <0.5
RW-11
RW-26
RW-28
MW-42 <0.5
MW-50 287
MW-51 <0.5
MW-23 <0.5
MW-21 12.2
MW-47 FP
MW-45 <0.5
MW-19 <0.5
MW-49 1.4
MW-31 <0.5
MW-46 <0.5
MW-14 <0.5
MW-44 <0.5
MW-60 <0.5
MW-08 <0.5
MW-62 <0.5

Checked By:	AS
Created By:	BM
Scale:	1 " = 200 FT
Date/Time:	12/28/2020; 15:45
Project No.:	CPC20126

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

0 125 250 500 750 Feet

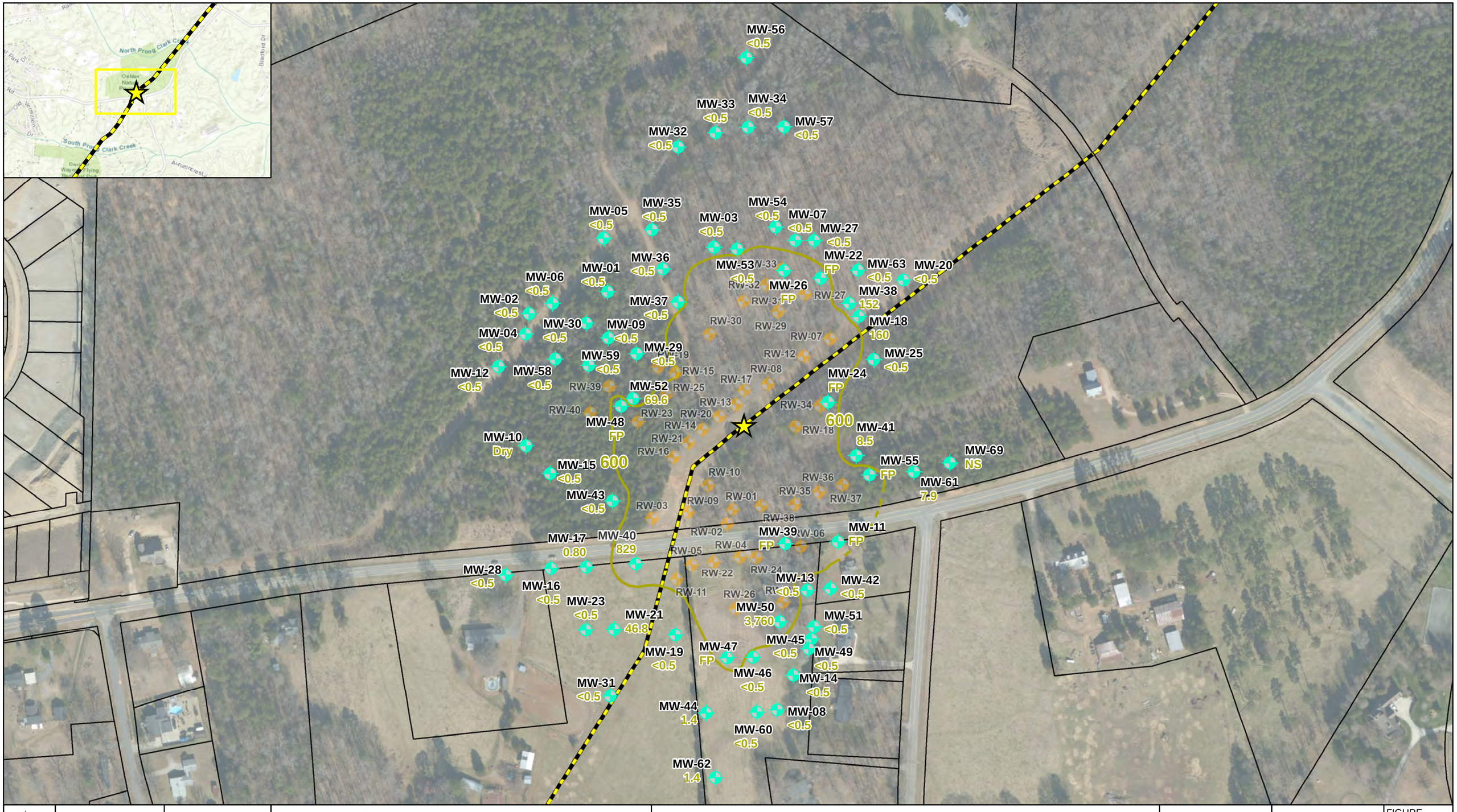
Release Site
Pipeline
20 Methyl-Tert Butyl Ether Isocontour (Dashed where Inferred)
<0.5 Constituent Not Detected Above Laboratory Practical Quantitation Limit
8.8 Methyl-Tert Butyl Ether Concentration (µg/L)
FP = Free Product
µg/L = Micrograms per Liter
Recovery Well
Monitoring Well

NCDEQ 2L Standard for Methyl-Tert Butyl Ether is 20 µg/L

Note: MW-69 was installed after sampling event.

APEX

FIGURE 10



Checked By:	AS
Created By:	BM
Scale:	1 " = 200 FT
Date/Time:	12/28/2020; 15:49
Project No.:	CPC20126

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

0 125 250 500 750 Feet

Release Site

Pipeline

–600– Toluene Isocontour (Dashed where Inferred)

<0.5 Constituent Not Detected Above Laboratory Practical Quantitation Limit

1.4 Toluene Concentration (µg/L)

FP = Free Product

µg/L = Micrograms per Liter

Recovery Well

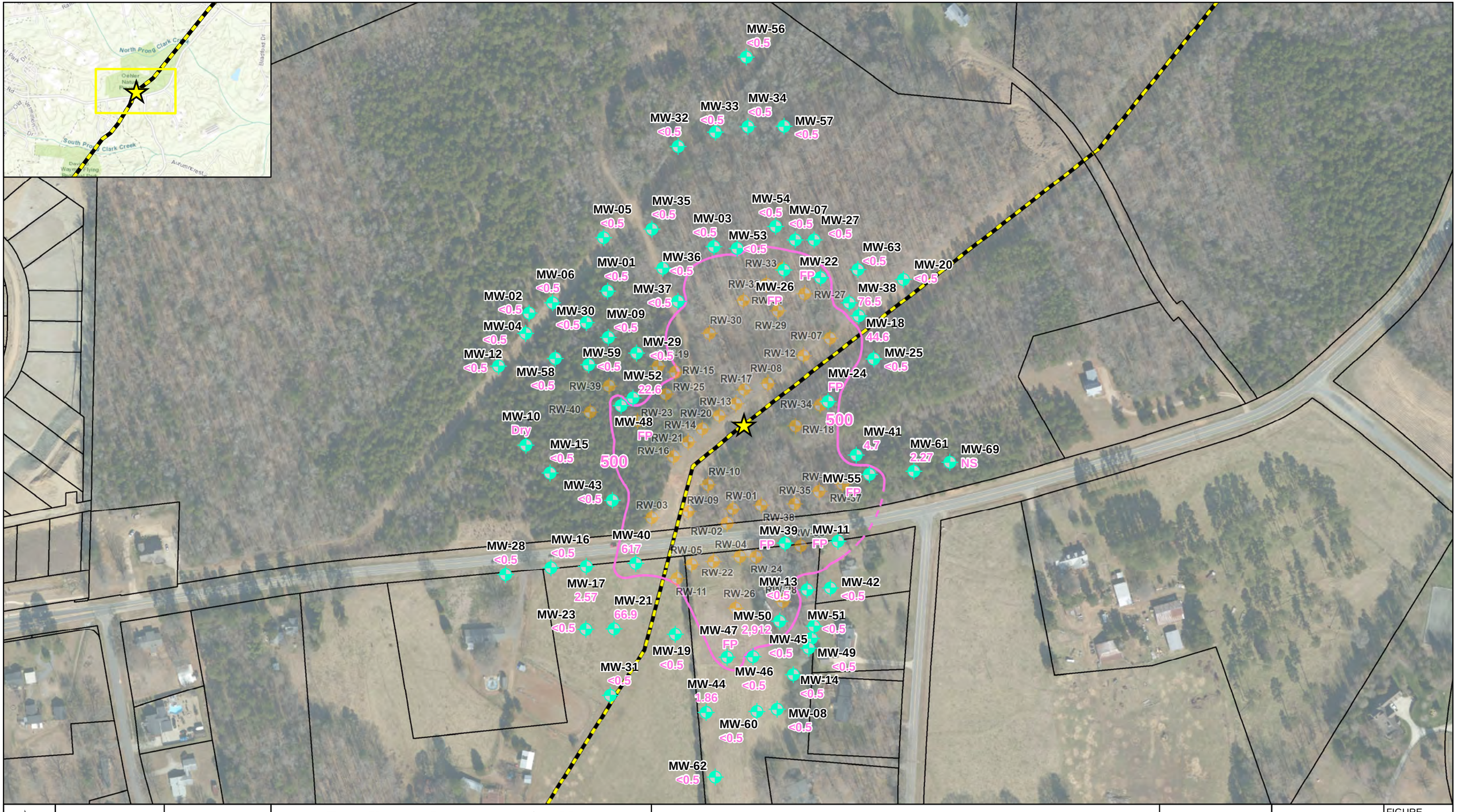
Monitoring Well

NCDEQ 2L Standard for Toluene is 600 µg/L

Note: MW-69 was installed after sampling event.

APEX

FIGURE 11



Checked By:	AS
Created By:	BM
Scale:	1 " = 200 FT
Date/Time:	12/28/2020; 15:48
Project No.:	CPC20126

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

0 125 250 500 750 Feet

Release Site

Pipeline

500 Total Xylenes Isocontour (Dashed where Inferred)

<0.5 Constituent Not Detected Above Laboratory Practical Quantitation Limit

66.9 Total Xylenes Concentration (µg/L)

FP = Free Product

µg/L = Micrograms per Liter

Recovery Well

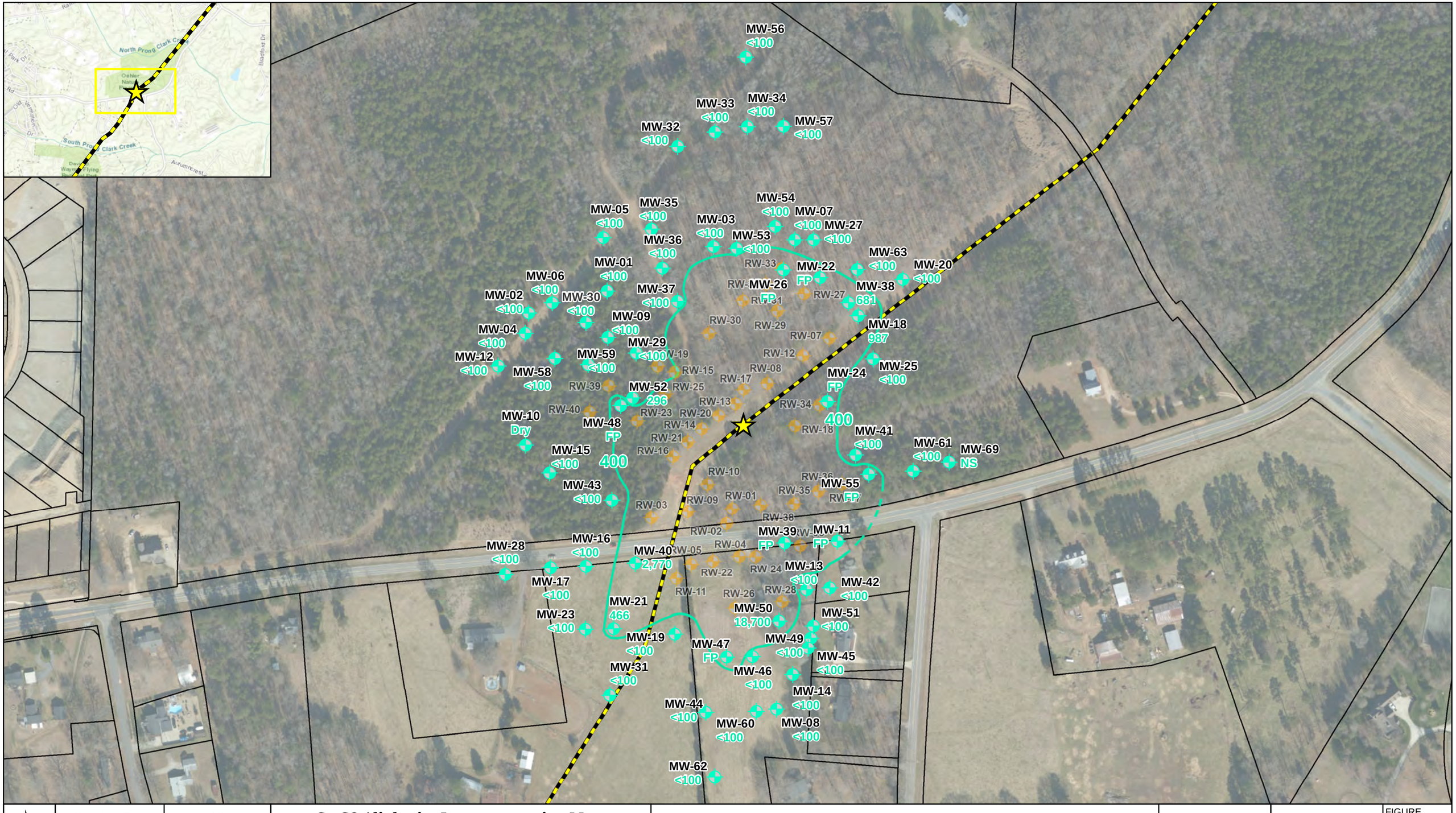
Monitoring Well

NCDEQ 2L Standard for Total Xylenes is 500 µg/L

Note: MW-69 was installed after sampling event.

APEX

FIGURE 12



Checked By:	AS
Created By:	BM
Scale:	1 " = 200 FT
Date/Time:	12/28/2020; 15:51
Project No.:	CPC20126

C5-C8 Aliphatics Isoconcentration Map

Colonial Pipeline Company

2020-L1-SR2448

Huntersville, North Carolina

0 125 250 500 750 Feet

Release Site

Pipeline

400 C5-C8 Aliphatics Isocontour (Dashed where Inferred)

<0.5 Constituent Not Detected Above Laboratory Practical Quantitation Limit

296 C5-C8 Aliphatics Concentration (µg/L)

FP = Free Product

µg/L = Micrograms per Liter

Recovery Well

Monitoring Well

NCDEQ 2L Standard for C5-C8 Aliphatics is 400 µg/L

Note: MW-69 was installed after sampling event.

APEX

FIGURE 13

13800_HC_RD_20200827	
Lead	109
13800_HC_RD_20200902	
Lead	169
13800_HC_RD_20200910	
Lead	55.2
13800_HC_RD_20200916	
Lead	67
13800_HC_RD_20200924	
Lead	23
13800_HC_RD_20201001	
Lead	6.5
13800_HC_RD_20201112	
Lead	5.4
13800_HC_RD_20201119	
Lead	5.7
13800_HC_RD_20201201	
Lead	7.8

14037_LAWTHER_RD_20200830	
Lead	37.3
14037_LAWTHER_RD_20200911	
Lead	23.1

13822_HC_RD_20200816	
Lead	53
13822_HC_RD_20200821	
Lead	14.2
13822_HC_RD_20200902	
Lead	11.6
13822_HC_RD_20200916	
Lead	14.3
13822_HC_RD_20200924	
Lead	8.9

13926B_HC_RD_20200816	
Chloroform	8.9
13926B_HC_RD_20200821	
Chloroform	8.4
13926B_HC_RD_20200902	
Chloroform	9.1
13926B_HC_RD_20200910	
Chloroform	7.6
13926B_HC_RD_20200916	
Chloroform	9.6
13926B_HC_RD_20200924	
Chloroform	9.8
13926B_HC_RD_20200930	
Chloroform	6.3
13926B_HC_RD_20201008	
Chloroform	9.3
13926B_HC_RD_20201015	
Chloroform	8.9
13926B_HC_RD_20201022	
Chloroform	8.7
13926B_HC_RD_20201029	
Chloroform	8.9
13926B_HC_RD_20201105	
Chloroform	9.2
13926B_HC_RD_20201119	
Chloroform	7
13926B_HC_RD_20201124	
Chloroform	8.7
13926B_HC_RD_20201201	
Lead	6.6
Chloroform	6.8

13926A_HC_RD_20201022	
Lead	5.2
13926A_HC_RD_20201029	
Lead	6.6
13926A_HC_RD_20201112	
Chloroform	8.2
13926A_HC_RD_20201119	
Lead	5.8

13923_AC_RD_20200924	
Lead	5.5

14226_HC_RD_20201001	
Lead	6.1

14015_AC_RD_20200825	
Chloroform	1.5
14015_AC_RD_20200902	
Chloroform	4.4

13835_AC_RD_20200916	
Bromodichloro-methane	1.7
Chloroform	7.4
13835_AC_RD_20200924	
Lead	16.1

500 FT
1500 FT
2000 FT

Notes:
1. Well locations are approximated and sampling commenced once access was allowed.
2. Information depicted is subject to change based on future site activites.

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

Checked By:	AS
Created By:	BM
Scale:	1 " = 550 FT
Created On:	12/28/2020; 15:53
Project No.:	CPC20126

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

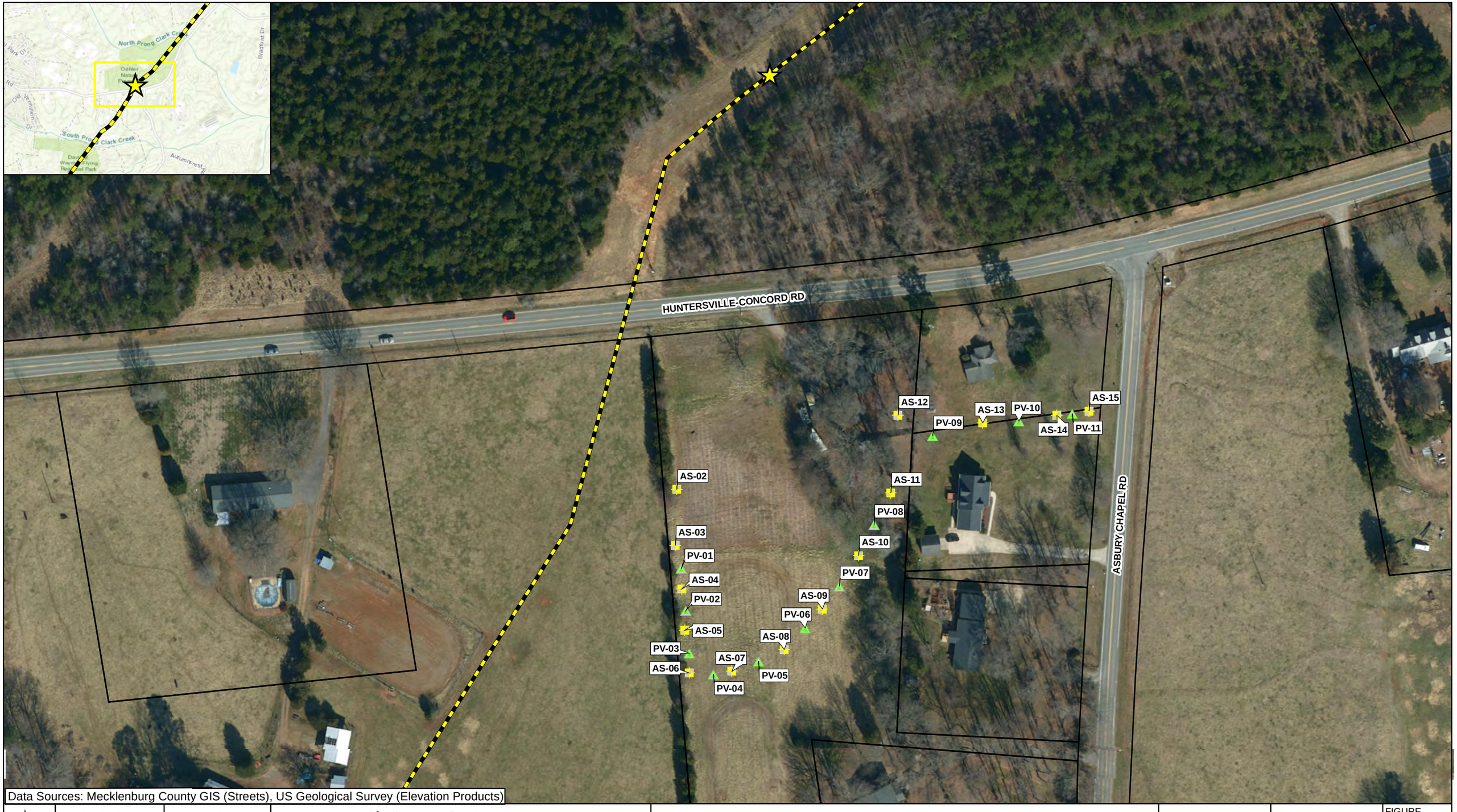
0 325 650 1,300 1,950 Feet

Release Site
Parcels

Sampled Water Supply Wells:
Non-Potable Use Well
Potable Use Well
Inactive Use Well
Abandoned Well

APEX

FIGURE
14



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

Checked By:	AS
Created By:	JC
Scale:	1 " = 100 FT
Date/Time:	12/28/2020; 16:01
Project No.:	CPC20126

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

0 62.5 125 250 375 Feet

Release Site
Pipeline
Air Sparge Well
Vent Well

APEX

FIGURE
15

TABLES

Table 1
Summary of Pipeline Excavation Soil Sampling Results

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

Lab Report	Sample ID	Sample Date	Volatile Organic Compounds (EPA 8260) (mg/kg)																								MADEP VPH (mg/kg)			
			1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (MEK)	Acetone	Acrylonitrile	Benzene	Chlorobenzene	Chloroform	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl-tert-butyl ether	Methylene Chloride	Naphthalene	Styrene	Tetrachloroethene	Toluene	Xylene (Total)	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	Aliphatic (C05-C08)	Aliphatic (C09-C12)	Aromatic (C09-C10),Unadjusted	Total VPH
Soil-to-Water MSCCs			**0.002**	**NE**	**2.6**	**8.5**	**8.3**	**16**	**24**	**NE**	**0.0056**	**0.44**	**0.37**	**0.37**	**4.9**	**1.7**	**0.091**	**0.02**	**0.16**	**1.5**	**0.0074**	**4.3**	**4.6**	**4.3**	**1.7**	**0.12**	**3.3**	**68**	**540**	**NE**	**NE**
Residential MSCCs			**10**	**NE**	**156**	**782**	**782**	**9,385**	**14,000**	**NE**	**18**	**312**	**20**	**156**	**1,560**	**1,564**	**350**	**85**	**313**	**3,128**	**1.1**	**1,200**	**3,129**	**626**	**626**	**100**	**626**	**939**	**1,500**	**31,000**	**NE**
Industrial / Commercial MSCCs			**100**	**NE**	**4,088**	**20,440**	**20,440**	**245,280**	**360,000**	**NE**	**164**	**8,176**	**180**	**4,088**	**40,000**	**40,880**	**3,100**	**763**	**8,176**	**81,760**	**10**	**32,000**	**81,760**	**16,350**	**16,350**	**4,000**	**16,350**	**24,528**	**40,000**	**810,000**	**NE**
92506678	North Wall	11/17/2020	<0.00446	<0.00891	<0.0224	**0.00441J**	<0.00891	<0.178	<0.0891	<0.0224	**0.0203**	<0.00446	<0.00446	<0.00178	**0.00665**	<0.00446	**0.000981J**	<0.0446	<0.0224	<0.0224	<0.00446	**0.0666**	**0.0323**	<0.0224	<0.00891	<0.00891	<0.0224	<8.65	<8.65	<8.65	<8.65
92506678	South Wall	11/17/2020	<0.00649	<0.0130	<0.0324	**0.00538J**	<0.0130	<0.259	<0.130	<0.0324	**0.0222**	<0.00649	<0.00649	<0.00259	**0.0168**	<0.00649	**0.0582**	**0.0178J**	<0.0324	<0.0324	<0.00649	**0.147**	**0.0722**	<0.0324	<0.0130	<0.0130	<0.0324	<8.64	<8.64	<8.64	<8.64
92506486	0-B	11/15/2020	<0.00450	**0.0508**	<0.0225	**0.0784**	**0.0350**	<0.180	<0.0901	<0.0225	**0.00225**	<0.00450	<0.00450	<0.00180	**0.00411J**	**0.000995J**	<0.00180	<0.0450	**0.122**	<0.0225	<0.00450	**0.0108**	**0.0286**	<0.0225	**0.00368J**	**0.0119**	**0.00541J**	<9.22	**4.63J**	<9.22	**4.63J**
92506486	0-E	11/15/2020	<0.00431	<0.00862	<0.0216	**0.00281J**	<0.00862	<0.172	<0.0862	<0.0216	<0.00172	<0.00431	<0.00431	<0.00172	**0.00150J**	<0.00431	**0.00248**	<0.0431	<0.0216	**0.000412J**	<0.00431	**0.00252J**	**0.00179J**	<0.0216	<0.00862	<0.00862	<0.0216	<8.68	<8.68	<8.68	<8.68
92506486	0-W	11/15/2020	<0.00440	**0.0132**	<0.0220	**0.0372**	**0.0159**	<0.176	<0.0880	<0.0220	**0.138**	<0.00440	<0.00440	**0.00525**	**0.0284**	**0.00161J**	**0.000880J**	<0.0440	<0.0220	<0.0220	<0.00440	**0.518**	**0.287**	<0.0220	**0.00498J**	<0.00880	<0.0220	**3.97J**	<8.86	<8.86	**3.97J**
92506486	25-B	11/15/2020	<0.00451	**0.0341**	<0.0226	**0.101**	**0.0466**	<0.181	<0.0903	<0.0226	**0.0143**	<0.00451	<0.00451	<0.00181	**0.0312**	**0.00289J**	<0.00181	<0.0451	<0.0226	<0.0226	<0.00451	**0.136**	**0.226**	<0.0226	**0.0155**	<0.00903	<0.0226	**4.26J**	**3.34J**	<8.83	**7.60J**
92506486	25-E	11/15/2020	<0.00472	<0.00945	<0.0236	**0.00316J**	<0.00945	<0.189	<0.0945	<0.0236	**0.00185J**	<0.00472	<0.00472	<0.00189	**0.00171J**	<0.00472	**0.00148J**	<0.0472	<0.0236	<0.0236	<0.00472	**0.00584J**	**0.00282J**	<0.0236	<0.00945	<0.00945	<0.0236	**4.57J**	<9.48	<9.48	**4.57J**
92506486	25-W	11/15/2020	<0.00444	**0.0436**	<0.0222	**0.131**	**0.0356**	<0.178	<0.0889	<0.0222	**0.444**	<0.00444	<0.00444	**0.0509**	**0.180**	**0.00685**	**0.00624**	<0.0444	<0.0222	<0.0222	<0.00444	**1.71**	**0.921**	<0.0222	**0.0233**	<0.00889	<0.0222	**7.03J**	**3.99J**	<8.68	**11.0**
92506486	50-B	11/15/2020	<0.00425	**0.00464J**	<0.0213	**0.0145**	**0.00747J**	<0.170	<0.0851	<0.0213	**0.00650**	<0.00425	<0.00425	<0.00170	**0.00541**	<0.00425	<0.00170	<0.0425	<0.0213	<0.0213	<0.00425	**0.0446**	**0.0487**	<0.0213	**0.00185J**	<0.00851	<0.0213	**3.35J**	**4.55J**	<8.59	**7.90J**
92506486	50-E	11/15/2020	<0.0358	<0.0716	<0.179	**0.0498J**	<0.0716	<1.43	<0.716	<0.179	**0.0281**	<0.0358	<0.0358	<0.0143	**0.0115J**	**0.0392**	<0.0143	<0.358	**1.03**	<0.179	<0.0358	**0.0682J**	**0.0510J**	**0.240**	<0.0716	<0.0716	**0.0542J**	**5.30J**	<8.99	<8.99	**5.30J**
92506486	50-W	11/15/2020	<0.0354	**61.7**	<0.177	**219**	**63.8**	<1.41	<0.707	<0.177	**10.8**	<0.0354	<0.0354	<0.0141	**130**	**11.1**	**0.251**	<0.354	**22.8**	<0.177	<0.0354	**285**	**735**	**11.8**	**45.2**	**2.44**	**4.10**	**1,300**	**1,360**	**567**	**3,240**
92506486	75-B	11/16/2020	<0.00425	<0.00850	<0.0213	<0.00850	<0.00850	<0.170	<0.0850	<0.0213	**0.00534**	<0.00425	<0.00425	<0.00170	<0.00425	<0.00425	**0.000623J**	<0.0425	<0.0213	<0.0213	<0.00425	**0.0182**	**0.00566J**	<0.0213	<0.00850	<0.00850	<0.0213	**3.34J**	**3.42J**	<8.30	**6.76J**
92506486	75-E	11/16/2020	<0.00450	<0.00897	<0.0224	**0.00445J**	<0.00897	<0.179	<0.0897	<0.0224	**0.0410**	<0.00450	<0.00450	<0.00179	**0.00812**	<0.00450	<0.00179	**0.0268J**	<0.0224	<0.0224	<0.00450	**0.0999**	**0.0240**	<0.0224	<0.00897	<0.00897	<0.0224	**3.25J**	<8.46	<8.46	**3.25J**
92506486	75-W	11/16/2020	<0.0330	**40.5**	<0.165	**143**	**40.0**	<1.32	<0.659	<0.165	**7.53**	<0.0330	<0.0330	<0.0132	**60.6**	**7.43**	**0.149**	<0.330	**15.7**	<0.165	<0.0330	**148**	**346**	**6.61**	**29.2**	**1.56**	**2.78**	**3,960**	**4,460**	**2,010**	**10,400**
92506486	100-B	11/16/2020	<0.00360	**0.00308J**	<0.0180	**0.00729**	**0.00390J**	<0.144	<0.0719	<0.0180	**0.00657**	<0.00360	<0.00360	<0.00144	**0.00108J**	<0.00360	<0.00144	<0.0360	<0.0180	<0.0180	<0.00360	**0.0164**	**0.00749J**	<0.0180	<0.00719	<0.00719	<0.0180	**16.4**	<7.15	<7.15	**16.4**
92506486	100-E	11/16/2020	<0.00436	**0.00341J**	<0.0218	**0.0190**	**0.00981**	<0.174	<0.0871	<0.0218	**0.147**	<0.00436	<0.00436	<0.00174	**0.0373**	**0.00111J**	<0.00174	<0.0436	<0.0218	<0.0218	<0.00436	**0.420**	**0.156**	<0.0218	**0.00850J**	<0.00871	<0.0218	**3.58J**	<8.81	<8.81	**3.58J**
92506486	100-W	11/16/2020	<0.00505	**0.0595**	<0.0253	**0.148**	**0.0492**	<0.202	<0.101	<0.0253	**0.786**	<0.00505	<0.00505	**0.138**	**0.0593**	**0.00106J**	**0.0125**	**0.0380J**	<0.0253	<0.0253	<0.00505	**1.98**	**1.33**	<0.0253	**0.00211J**	<0.0101	<0.0253	**6.10J**	**4.63J**	<9.61	**10.7**
92506486	125-B	11/16/2020	<0.00328	**0.00423J**	<0.0164	**0.00767**	**0.00498J**	<0.131	<0.0655	<0.0164	**0.0949**	<0.00328	<0.00328	<0.00131	<0.00328	<0.00328	**0.00117J**	<0.0328	<0.0164	<0.0164	<0.00328	**0.152**	**0.0761**	<0.0164	<0.00655	<0.00655	<0.0164	**8.05**	<6.54	<6.54	**8.05**
92506486	125-E	11/16/2020	<0.00308	<0.00616	<0.0154	<0.00616	<0.00616	<0.123	<0.0616	<0.0154	**0.0172**	<0.00308	<0.00308	<0.00123	**0.00155J**	<0.00308	<0.00123	<0.0308	<0.0154	<0.0154	<0.00308	**0.0362**	**0.0103**	<0.0154	<0.00616	<0.00616	<0.0154	**2.53J**	<6.39	<6.39	**2.53J**
92506486	125-W	11/16/2020	<0.00376	<0.00752	<0.0188	<0.00752	<0.00752	<0.150	<0.0752	<0.0188	**0.0172**	<0.00376	<0.00376	**0.0119**	<0.00376	<0.00376	<0.00150	<0.0376	<0.0188	<0.0188	<0.00376	**0.00585J**	**0.0156**	<0.0188	<0.00752	<0.00752	<0.0188	<7.58	<7.58	<7.58	<7.58
92506486	150-B	11/16/2020	<0.139	**20.2**	<0.697	**69.2**	**21.6**	<5.58	<2.79	<0.697	**4.63**	<0.139	**0.656**	**0.386**	**30.8**	**2.86**	<0.0558	<1.39	**5.33**	<0.697	<0.139	**49.2**	**206**	**3.68**	**13.8**	**0.663**	**1.36**	**894**	**472**	**216**	**1,580**
92506486	150-E	11/16/2020	<0.00342	**0.00491J**	<0.0171	<0.00684	**0.00346J**	<0.137	<0.0684	<0.0171	**0.083**	<0.00342	<0.00342	<0.00137	**0.00137J**	<0.00342	<0.00137	<0.0342	<0.0171	<0.0171	<0.00342	**0.0553**	**0.048**	<0.0171	<0.00684	<0.00684	<0.0171	**3.86J**	<6.99	<6.99	**3.86J**
92506486	150-W	11/16/2020	<0.00372	**0.150**	<0.0186	**0.120**	**0.0858**	<0.149	**0.145**	<0.0186	**0.436**	<0.00372	<0.00372	**0.0969**	**0.074**	**0.00465**	**0.0320**	<0.0372	**0.0299**	<0.0186	<0.00372	**1.22**	**0.756**	<0.0186	**0.0128**	<0.00744	<0.0186	**4.46J**	**3.68J**	<7.56	**8.14**
92506486	175-B	11/16/2020	<0.0572	**44.9**	<0.286	**141**	**49.1**	**23.1**	<1.14	<0.286	**10.8**	<0.0572	**1.84**	<0.0229	**87.8**	**6.85**	<0.0229	<0.572	**25.3**	<0.286	<0.0572	**136**	**559**	**8.44**	**32.5**	**1.40**	**2.37**	**2,750**	**2,250**	**650**	**2,250**
92506486	175-E	11/16/2020	<0.0295	**7.04**	<0.147	**23.6**	**7.12**	<1.18	<0.589	<0.147	**2.03**	<0.0295	<0.0295	**1.77**	**10.9**	**0.854**	**0.239**	<0.295	**2.93**	<0.147	<0.0295	**18.4**	**68.5**	**1.06**	**4.42**	**0.243**	**0.442**	**1,800**	**2,610**	**725**	**4,400**
92506486	175-W	11/16/2020	<0.127	**84.5**	<0.635	**277**	**98.0**	<5.08	<2.54	<0.635	**27.4**	<0.127	<0.127	**11.0**	**193**	**16.1**	**0.588**	<1.27	**29.2**	<0.635	<0.127	**348**	**1250**	**14.2**	**68.5**	**2.64**	**4.78**	**4,800**	**4,720**	**686**	**9,520**
92506678	200-B	11/17/2020	<0.00444	**0.783**	<0.0222	**0.904**	**0.799**	<0.178	<0.0888	<0.0222	**0.527**	<0.00444	<0.00444	**2.25**	**0.0296**	**0.00408J**	**0.233**	<0.0444	**0.0827**	<0.0222	<0.00444	**0.609**	**2.89**	<0.0222	**0.0101**	**0.0277**	**0.0121J**	**26.1**	**16.0**	**3.43J**	**42.1**
92506678	200-E	11/17/2020	<0.0711	**136**	<0.356	**495**	**149**	<2.84	<1.42	<0.356	**56.2**	**0.353**	<0.0711	**22.9**	**398**	**19.8**	**1.49**	<0.711	**59.5**	<0.356	<0.0711	**877**	**2,210**	**27.2**	**106**	**4.31**	**8.25**	**8,490**	**4,310**	**1,480**	**14,300**
92506678	200-W	11/17/2020	<0.0734	**96.4**	<0.367	**348**	**105**	<2.94	<1.47	<0.367	**10.1**	**0.308**	<0.0734	**3.35**	**153**	**14.7**	**0.280**	<0.734	**43.7**	<0.367	**0.0945**	**201**	**997**	**19.8**	**68.5**	**3.13**	**6.83**	**1,930**	**3,820**	**1,150**	**5,750**

Table 1
Summary of Pipeline Excavation Soil Sampling Results

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

Lab Report	Sample ID	Sample Date	Volatile Organic Compounds (EPA 8260) (mg/kg)																							MADEP VPH (mg/kg)			
			1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (MEK)	Acetone	Acrylonitrile	Benzene	Chlorobenzene	Chloroform	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl-tert-butyl ether	Methylene Chloride	Naphthalene	Styrene	Tetrachloroethene	Toluene	Xylene (Total)	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	Aliphatic (C05-C08)	Aliphatic (C09-C12)	Aromatic (C09-C10),Unadjusted	Total VPH
Soil-to-Water MSCCs			**0.002**	**NE**	**2.6**	**8.5**	**8.3**	**16**	**24**	**NE**	**0.0056**	**0.44**	**0.37**	**0.37**	**4.9**	**1.7**	**0.091**	**0.02**	**0.16**	**1.5**	**0.0074**	**4.3**	**4.6**	**4.3**	**1.7**	**0.12**	**3.3**	**68**	**540**	**NE**	**NE**
Residential MSCCs			**10**	**NE**	**156**	**782**	**782**	**9,385**	**14,000**	**NE**	**18**	**312**	**20**	**156**	**1,560**	**1,564**	**350**	**85**	**313**	**3,128**	**1.1**	**1,200**	**3,129**	**626**	**626**	**100**	**626**	**939**	**1,500**	**31,000**	**NE**
Industrial / Commercial MSCCs			**100**	**NE**	**4,088**	**20,440**	**20,440**	**245,280**	**360,000**	**NE**	**164**	**8,176**	**180**	**4,088**	**40,000**	**40,880**	**3,100**	**763**	**8,176**	**81,760**	**10**	**32,000**	**81,760**	**16,350**	**16,350**	**4,000**	**16,350**	**24,528**	**40,000**	**810,000**	**NE**
92506678	225-B	11/17/2020	<0.182	**103**	<0.912	**354**	**110**	<7.30	<3.65	<0.912	**9.34**	<0.182	<0.182	**1.13**	**190**	**2.36**	<0.0730	<1.82	**12.7**	<0.912	<0.182	**312**	**1,190**	**3.93**	**68.6**	**0.641**	**1.21**	**2,470**	**1,160**	**696**	**4,330**
92510412		12/8/2020	**0.262**	**1.54**	<0.0379	**5.40**	**5.07**	<0.302	<0.151	<0.0379	**0.142**	<0.00756	<0.00756	**0.0457**	**1.22**	**0.422**	<0.00302	<0.0756	**2.04**	**0.365**	**0.0621**	**1.47**	**11.7**	**1.49**	**1.96**	**0.349**	**0.450**	**59.3**	**74.2**	**49.6**	**183**
92506678	225-E	11/17/2020	<0.0823	**96.8**	<0.412	**315**	**90.4**	<3.29	<1.65	<0.412	**60.4**	<0.0823	<0.0823	**3.42**	**199**	**29.8**	**0.497**	<0.823	**45.6**	<0.412	<0.0823	**517**	**1,100**	**22.9**	**102**	**5.10**	**9.63**	**5,090**	**6,240**	**1,500**	**11,300**
92506678	225-W	11/17/2020	<0.0834	**129**	<0.417	**439**	**125**	<3.34	<1.67	<0.417	**49.1**	**0.395**	<0.0834	**2.77**	**310**	**34.2**	**0.225**	<0.834	**60.9**	<0.417	<0.0834	**661**	**1,700**	**25.4**	**104**	**5.49**	**10.6**	**6,790**	**4,680**	**1,700**	**13,200**
92506678	250-B	11/17/2020	<0.0824	**79.7**	<0.413	**260**	**78.1**	<3.29	<1.65	<0.413	**42.2**	<0.0824	<0.0824	**3.28**	**130**	**13.6**	**0.336**	<0.824	**32.8**	<0.413	<0.0824	**344**	**705**	**13.5**	**55.2**	**2.95**	**4.61**	**44.5**	**38.2**	**25.7**	**108**
92510412		12/8/2020	<0.123	**81.4**	<0.615	**287**	**92.4**	<4.92	<2.46	<0.615	**53.2**	<0.123	<0.123	<0.0492	**202**	**18.3**	<0.0492	<1.23	**54.5**	**10.6**	<0.123	**600**	**1,130**	**14.2**	**61.3**	**3.38**	**5.65**	**4,770**	**2,770**	**1,690**	**9,230**
92506678	250-E	11/17/2020	<0.00437	**0.267**	<0.0219	**0.743**	**0.190**	**0.490**	**1.87**	<0.0219	**1.90**	<0.00437	<0.00437	**0.106**	**0.571**	**0.0206**	**0.0462**	<0.0437	**0.146**	<0.0219	<0.00437	**6.45**	**3.45**	**0.0101J**	**0.0832**	<0.00875	<0.0219	**13.0**	**5.25J**	**3.41J**	**21.7**
92506678	250-W	11/17/2020	<0.0927	**148**	<0.464	**519**	**146**	<3.71	<1.85	<0.464	**64**	**0.391**	<0.0927	**9.94**	**413**	**35.7**	**0.590**	<0.927	**65.2**	<0.464	<0.0927	**935**	**2,150**	**24.3**	**116**	**5.33**	**9.09**	**8,610**	**6,250**	**2,180**	**17,100**
92506678	275-B	11/17/2020	<0.0832	**75.1**	<0.416	**243**	**72.6**	<3.33	<1.66	<0.416	**28.6**	<0.0832	<0.0832	**0.519**	**86.2**	**10.6**	**0.0419**	<0.832	**23.0**	<0.416	<0.0832	**285**	**469**	**11.9**	**53.6**	**2.43**	**4.03**	**2,660**	**1,230**	**636**	**4,530**
92510412		12/8/2020	<0.205	**135**	<1.02	**511**	**171**	<8.19	<4.10	**1.02**	**171**	<0.205	<0.205	<0.0819	**260**	**27.5**	<0.0819	<2.05	**121**	<1.02	<0.205	**1,110**	**1,440**	**21.8**	**122**	**4.97**	**8.14**	**6,690**	**3,390**	**2,220**	**12,300**
92506678	275-E	11/17/2020	<0.00426	**0.159**	<0.0214	**0.461**	**0.134**	<0.170	**0.0871**	<0.0214	**1.08**	<0.00426	<0.00426	**0.0553**	**0.0657**	**0.00294J**	**0.00911**	<0.0426	**0.0349**	<0.0214	<0.00426	**2.86**	**2.67**	<0.0214	**0.00673J**	<0.00852	<0.0214	**10.6**	**7.65J**	**4.10J**	**22.3**
92506678	275-W	11/17/2020	<0.00369	**0.548**	<0.0184	**1.58**	**0.416**	**0.428**	**1.13**	<0.0184	**1.33**	<0.00369	<0.00369	**0.273**	**0.820**	**0.0450**	**0.0826**	<0.0369	**0.400**	<0.0184	<0.00369	**6.22**	**4.61**	**0.0503**	**0.226**	**0.0113**	**0.0181J**	**409**	**656**	**241**	**1,070**
92506678	300-B	11/17/2020	<0.0792	**0.190**	<0.396	**0.738**	**0.231**	<3.17	<1.58	<0.396	**0.342**	<0.0792	<0.0792	<0.0317	<0.0791	**0.0769J**	<0.0317	<0.792	**1.70**	<0.396	<0.0792	**0.720**	**0.402**	**0.250J**	**0.121J**	<0.158	<0.396	**16.9**	**2.85J**	<7.91	**19.8**
92510412		12/8/2020	<0.00529	**0.0309**	<0.0264	**0.150**	**0.0850**	<0.211	<0.106	<0.0264	**0.967**	<0.00529	<0.00529	**0.00877**	**0.137**	**0.00586**	<0.00211	<0.0529	**0.0275**	<0.0264	<0.00529	**3.02**	**1.22**	<0.0264	**0.0148**	<0.0106	<0.0264	**12.8**	<10.6	<10.6	**25.2**
92506678	300-E	11/17/2020	<0.00437	**0.0190**	<0.0218	**0.0619**	**0.0193**	<0.175	**0.0656J**	<0.0218	**0.550**	<0.00437	<0.00437	**0.0207**	**0.0232**	**0.000917J**	**0.00327**	<0.0437	<0.0218	<0.0218	<0.00437	**1.39**	**0.508**	<0.0218	<0.00873	<0.00873	<0.0218	**4.77J**	**3.86J**	<10.7	**8.63J**
92506678	300-W	11/17/2020	<0.00396	**0.155**	<0.0198	**0.402**	**0.0959**	<0.158	**0.119**	<0.0198	**1.30**	<0.00396	<0.00396	**0.302**	**0.407**	**0.0110**	**0.0942**	<0.0396	**0.0750**	<0.0198	<0.00396	**4.34**	**2.71**	<0.0198	**0.0344**	<0.00792	<0.0198	**11.8**	**5.66J**	**2.89J**	**20.3**
92506678	325-B	11/17/2020	<0.00397	**0.0752**	<0.0198	**0.0622**	**0.0893**	<0.159	<0.0793	<0.0198	**0.115**	<0.00397	<0.00397	**0.00192**	**0.00370J**	<0.00397	<0.00159	<0.0397	<0.0198	<0.0198	<0.00397	**0.179**	**0.219**	<0.0198	**0.00153J**	<0.00793	<0.0198	**25.6**	<8.43	**3.29J**	**28.9**
92510412		12/8/2020	<0.00268	**0.00720**	<0.0134	**0.0222**	**0.0164**	<0.107	<0.0535	<0.0134	**0.166**	<0.00268	<0.00268	<0.00107	**0.0335**	<0.00268	<0.00107	<0.0268	<0.0134	<0.0134	<0.00268	**0.521**	**0.189**	<0.0134	<0.00535	<0.00535	<0.0134	**9.14**	<5.35	<5.35	**11.6**
92506678	325-E	11/17/2020	<0.00399	<0.00799	<0.0200	**0.00518J**	**0.00356J**	<0.160	<0.0799	<0.0200	**0.0659**	<0.00399	<0.00399	<0.00160	<0.00399	<0.00399	**0.00460**	<0.0399	<0.0200	<0.0200	<0.00399	**0.118**	**0.0473**	<0.0200	<0.00799	<0.00799	<0.0200	<7.86	<7.86	<7.86	<7.86
92506678	325-W	11/17/2020	<0.00384	**0.228**	<0.0193	**0.668**	**0.178**	<0.154	<0.0769	<0.0193	**1.08**	<0.00384	<0.00384	**0.0787**	**0.210**	**0.00781**	**0.0125**	<0.0384	**0.0962**	<0.0193	<0.00384	**3.77**	**2.26**	**0.00819J**	**0.0264**	**0.00399J**	<0.0193	**11.1**	**5.62J**	**3.87J**	**20.7**
92506678	350-B	11/17/2020	<0.00415	**0.00690J**	<0.0207	**0.00543J**	**0.00629J**	<0.166	<0.0830	<0.0207	**0.00239**	<0.00415	<0.00415	<0.00166	**0.00148J**	<0.00415	<0.00166	<0.0415	<0.0207	<0.0207	<0.00415	**0.0135**	**0.0231**	<0.0207	<0.00830	<0.00830	<0.0207	**5.74J**	<8.46	<8.46	**5.74J**
92506678	350-E	11/17/2020	<0.00394	<0.00788	<0.0197	<0.00788	<0.00788	<0.158	<0.0788	<0.0197	**0.00616**	<0.00394	<0.00394	<0.00158	<0.00394	<0.00394	<0.00158	<0.0394	<0.0197	<0.0197	<0.00394	**0.00708J**	**0.00252J**	<0.0197	<0.00788	<0.00788	<0.0197	<7.87	<7.87	<7.87	<7.87
92506678	350-W	11/17/2020	<0.00388	<0.00776	<0.0194	**0.00318J**	<0.00776	<0.155	<0.0776	<0.0194	**0.0379**	<0.00388	<0.00388	<0.00155	<0.00388	<0.00388	<0.00155	<0.0388	<0.0194	<0.0194	<0.00388	**0.0641**	**0.0318**	<0.0194	<0.00776	<0.00776	<0.0194	**3.21J**	<9.48	<9.48	**3.21J**
92506678	375-B	11/17/2020	<0.00515	<0.0103	<0.0257	**0.00345J**	<0.0103	<0.206	<0.103	<0.0257	**0.00365**	<0.00515	<0.00515	<0.00206	<0.00515	<0.00515	<0.00206	<0.0515	<0.0257	<0.0257	<0.00515	**0.00875J**	**0.00679J**	<0.0257	<0.0103	<0.0103	<0.0257	**4.45J**	<8.76	<8.76	**4.45J**
92506678	375-E	11/17/2020	<0.00458	**0.00527J**	<0.0229	**0.00810J**	<0.00915	<0.183	<0.0915	<0.0229	**0.0310**	<0.00458	<0.00458	<0.00183	<0.00458	<0.00458	<0.00183	<0.0458	<0.0229	<0.0229	<0.00458	**0.0544**	**0.0378**	<0.0229	<0.00915	<0.00915	<0.0229	**4.46J**	<8.93	<8.93	**4.46J**
92506678	375-W	11/17/2020	<0.00407	**0.00320J**	<0.0203	<0.00813	<0.00813	<0.163	<0.0813	<0.0203	**0.00845**	<0.00407	<0.00407	<0.00163	<0.00407	<0.00407	**0.000610J**	<0.0407	<0.0203	<0.0203	<0.00407	**0.0192**	**0.0115**	<0.0203	<0.00813	<0.00813	<0.0203	<8.21	<8.21	<8.21	<8.21

Notes:
Only detected constituents are shown
MSCC - Maximum Soil Contaminant Concentrations.
"<" = Indicates compound was not detected above laboratory reporting limit
NE - Not Established
NA - Not Analyzed
J - Result is an estimated value below the laboratory reporting limit.
NA - Not Analyzed
Bold values indicate detectable levels
Shaded values indicate compound exceeded MSCC Standard
All units are milligram per kilogram (mg/kg)

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (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-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-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

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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-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

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (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-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-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

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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-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

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (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-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-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

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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-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-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

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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-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-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

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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-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-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

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (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-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-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-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-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

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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-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-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-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-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-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-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-41	735.51	11/23/2020	ND	Dry	N/A	Dry
RW-42	733.80	11/23/2020	ND	Dry	N/A	Dry
RW-43	737.70	11/23/2020	37.26	41.71	4.45	699.25
RW-44	738.21	11/23/2020	ND	Dry	N/A	Dry

Table 2
Summary of Recovery Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
RW-45	722.04	11/23/2020	31.05	32.01	0.96	690.73
RW-46	716.92	11/23/2020	23.02	NW	>20.99	N/A

Notes:

ft btoc = Feet Below Top of Casing

N/A = Not Applicable

NW = No water measured; well contained product only.

RW = Recovery Well

ND = Not Detected

[1] = Elevations surveyed in feet using the NAVD88 vertical datum.

[2] = Corrected Groundwater Elevation = (Top of Casing - Depth to Water) + (Free Product Thickness x 0.7324)

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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	11/9/2020	ND	26.06	N/A	681.24
MW-05	707.30	10/28/2020	ND	28.34	N/A	678.96
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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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	10/19/2020	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	10/5/2020	ND	31.32	N/A	681.04
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-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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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	10/26/2020	ND	Dry	N/A	Dry
MW-10	722.91	11/9/2020	ND	Dry	N/A	Dry
MW-10	722.91	10/5/2020	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-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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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	10/19/2020	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	10/5/2020	ND	33.28	N/A	691.60
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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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	11/9/2020	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	11/18/2020	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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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	10/19/2020	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	10/5/2020	ND	33.28	N/A	693.01
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-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	10/26/2020	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	10/21/2020	ND	44.16	N/A	685.53
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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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**	NM	10/3/2020	ND	29.86	N/A	NM
MW-23**	NM	10/19/2020	ND	29.81	N/A	NM
MW-23**	NM	10/26/2020	ND	29.78	N/A	NM
MW-23**	NM	11/9/2020	ND	29.79	N/A	NM
MW-23**	NM	11/18/2020	ND	29.82	N/A	NM
MW-23**	NM	11/23/2020	ND	30.79	N/A	NM
MW-23**	NM	12/7/2020	ND	29.73	N/A	NM
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	Active Recovery Pump in Well			
MW-24	737.63	11/23/2020	Active Recovery Pump in Well			
MW-24	737.63	12/7/2020	Active Recovery Pump in Well			
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	10/26/2020	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	10/21/2020	ND	45.54	N/A	688.50
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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
MW-26	717.71	9/14/2020	31.19	33.25	2.33	686.17
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	10/26/2020	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	10/21/2020	28.91	39.92	11.01	685.85
MW-26	717.71	11/18/2020	Active Recovery Pump in Well			
MW-26	717.71	11/23/2020	42.57	54.00	11.43	672.08
MW-26	717.71	12/7/2020	Active Recovery Pump in Well			
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-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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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	10/26/2020	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	10/21/2020	ND	29.62	N/A	691.83
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-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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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	10/26/2020	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	10/21/2020	ND	11.77	N/A	672.12
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-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-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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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	Active Recovery Pump in Well			
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	11/9/2020	ND	33.47	N/A	695.45
MW-40	728.92	10/28/2020	ND	35.32	N/A	693.60
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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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-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	10/26/2020	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	10/21/2020	ND	34.70	N/A	691.78
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	NM	693.98
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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-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	Active Recovery Pump in Well			
MW-47	726.77	11/23/2020	25.51	27.75	2.24	700.66
MW-47	726.77	12/7/2020	Active Recovery Pump in Well			
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-49	727.58	9/18/2020	ND	32.29	0.40	695.29
MW-49	727.58	9/28/2020	ND	33.63	0.40	693.95
MW-49	727.58	10/3/2020	ND	33.75	0.40	693.83
MW-49	727.58	10/19/2020	ND	33.73	0.40	693.85
MW-49	727.58	10/26/2020	ND	33.76	0.40	693.82
MW-49	727.58	11/9/2020	ND	33.69	0.40	693.89
MW-49	727.58	11/18/2020	ND	33.70	0.40	693.88
MW-49	727.58	11/23/2020	ND	33.55	0.40	694.03
MW-49	727.58	12/7/2020	ND	33.45	0.40	694.13

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
MW-50	731.14	9/18/2020	ND	35.04	0.40	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-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-52	722.94	9/28/2020	ND	33.32	N/A	689.62
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	10/26/2020	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	10/21/2020	ND	35.56	N/A	687.38
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-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-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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (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	Active Recovery Pump in Well			
MW-56	681.53	10/3/2020	ND	12.27	0.00	669.26
MW-56	681.53	10/19/2020	ND	11.86	0.00	669.67
MW-56	681.53	10/26/2020	ND	11.76	0.00	669.77
MW-56	681.53	11/9/2020	ND	11.36	0.00	670.17
MW-56	681.53	11/18/2020	ND	11.11	0.00	670.42
MW-56	681.53	11/23/2020	ND	10.95	0.00	670.58
MW-56	681.53	12/7/2020	ND	10.49	0.00	671.04
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-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-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	11/9/2020	ND	31.03	N/A	688.35
MW-59	719.38	10/28/2020	ND	33.18	N/A	686.20
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

Table 3
Summary of Monitoring Well Gauging Data

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

Well ID	Top Of Casing Elevation[1]	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation[2] (ft btoc)
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-61	NM	11/9/2020	ND	52.13	N/A	NM
MW-61	NM	11/18/2020	NM	NM	NM	NM
MW-61	NM	11/23/2020	ND	54.01	N/A	NM
MW-61	NM	12/7/2020	ND	54.29	N/A	NM
MW-62	NM	11/23/2020	NM	NM	NM	NM
MW-62	NM	12/7/2020	ND	36.95	N/A	NM
MW-63	NM	11/23/2020	ND	39.44	N/A	NM
MW-63	NM	12/7/2020	ND	39.37	N/A	NM

Notes:

ft btoc = Feet Below Top of Casing

N/A = Not Applicable

MW = Monitoring Well

ND = Not Detected

NM = Not Measured

[1] = Elevations surveyed in feet using the NAVD88 vertical datum.

[2] = Corrected Groundwater Elevation = (Top of Casing - Depth to Water) + (Free Product Thickness x 0.7324)

* = Initial monitoring well Top Of Casing surveyed prior to final well completion.

** = MW-23 re-installed; re-survey pending.

Table 4
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448 Incident
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	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**0.4**	**70**	**600**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**		**400**	**NE**	**NE**	**NE**
92493062	MW-1_20200828	MW-01	08/28/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-1_20201021	MW-01	10/21/2020	**50.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-01_20201130	MW-01	11/30/2020	**43.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493062	MW-2_20200828	MW-02	08/28/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-2_20201021	MW-02	10/21/2020	**19.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-02_20201130	MW-02	11/30/2020	**20.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493062	MW-3_20200828	MW-03	08/28/2020	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-3_20201022	MW-03	10/22/2020	**9.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-3_20201130	MW-03	11/30/2020	**13.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-4_20200902	MW-04	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-4_20201021	MW-04	10/21/2020	**19.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-04_20201130	MW-04	11/30/2020	**16.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-5_20200902	MW-05	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-5_20201021	MW-05	10/21/2020	**19.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-05_20201130	MW-05	11/30/2020	**13.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-6_20200902	MW-06	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-6_20201021	MW-06	10/21/2020	**33.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-06_20201130	MW-06	11/30/2020	**23.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-7_20200902	MW-07	09/02/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-7_20201023	MW-07	10/23/2020	**73.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**1**	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-7_20201130	MW-07	11/30/2020	**35.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494322	MW-8_20200903	MW-08	09/03/2020	<5	<0.5	**2.5**	**15.5**	**3.8**	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**2.3**	<0.5	<0.5	**1.2**	**0.58**	<100	<100	<100	<100
92495239	MW-08_20200913	MW-08	09/13/2020	<5	<0.5	**1.6**	**12.8**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**0.56**	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501345	MW-08_20201020	MW-08	10/20/2020	**11.2**	<0.5	<0.5	**3.5**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508886	MW-8_20201201	MW-08	12/02/2020	**9.7**	<0.5	<0.5	**0.96**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-9_20200902	MW-09	09/02/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495241	MW-09_20200913	MW-09	09/13/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-9_20201021	MW-09	10/21/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-09_20201130	MW-09	11/30/2020	**7.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493864	MW-11_20200903	MW-11	09/03/2020	<5	<0.5	**2.1**	**18.3**	**3.7**	<0.5	<0.5	<2	<0.5	<2	<0.5	**4.1**	**1.2**	**1**	<0.5	**1.8**	**0.75**	<100	<100	<100	<100
92495244	MW-11_20200913	MW-11	09/13/2020	<5	<0.5	<0.5	**6.3**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	**1.9**	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501344	MW-11_20201020	MW-11	10/20/2020	**17.8**	**1740**	<20	<20	<20	**172**	**286**	**99.8**	**29.5**	<80	<20	<20	**4370**	**265**	<20	**1110**	**645**	**16700**	**4580**	**1370**	**5950**
92493708	MW-12_20200902	MW-12	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-12_20201021	MW-12	10/21/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-12_20201130	MW-12	11/30/2020	**8.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100

Table 4
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448 Incident
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	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**0.4**	**70**	**600**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**		**400**	**NE**	**NE**	**NE**
92495627	MW-13_20200915	MW-13	09/15/2020	<5	<0.5	**2.2**	**21.7**	**0.54**	<0.5	<0.5	<2	<0.5	<2	<0.5	**4.4**	**1.5**	**0.76**	<0.5	**1.8**	**0.92**	<100	<100	<100	<100
92499587	MW-13_20201007	MW-13	10/07/2020	<5	<0.5	**0.55**	**15.1**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	**2.8**	**0.53**	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501345	MW-13_20201020	MW-13	10/20/2020	<5	<0.5	<0.5	**5.1**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	**1.2**	**0.97**	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509251	MW-13_20201202	MW-13	12/02/2020	<5	<0.5	<0.5	**6.2**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	**1.1**	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495239	MW-14_20200913	MW-14	09/13/2020	<5	<0.5	**0.7**	**4.4**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501345	MW-14_20201020	MW-14	10/20/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**0.55**	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509251	MW-14_20201202	MW-14	12/02/2020	**18.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494640	MW-15_20200909	MW-15	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-15_20201021	MW-15	10/21/2020	**10.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-15_20201130	MW-15	11/30/2020	**28.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495905	MW-16_20200916	MW-16	09/16/2020	<5	<0.5	**0.78**	**5.9**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500605	MW-16_20201007	MW-16	10/07/2020	<5	<0.5	<0.5	**3.3**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501343	MW-16_20201020	MW-16	10/20/2020	**7.8**	<0.5	<0.5	**2**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508884	MW-16_20201201	MW-16	12/01/2020	**18.9**	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495905	MW-17_20200916	MW-17	09/16/2020	<5	**0.6**	**1.4**	**16.2**	<0.5	<0.5	**1.4**	<2	<0.5	<2	<0.5	**2.7**	**5.4**	**3.7**	**1.3**	**7.2**	**3.3**	<100	<100	<100	**109**
92501343	MW-17_20201020	MW-17	10/20/2020	<5	<0.5	<0.5	**8.9**	<0.5	<0.5	**0.82**	<2	<0.5	<2	<0.5	**1.2**	**2.1**	**2**	**0.71**	**3.6**	**1.8**	<100	<100	<100	**152**
92508884	MW-17_20201201	MW-17	12/01/2020	**9.5**	<0.5	<0.5	**4.7**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	**0.61**	**0.80**	**1.1**	<0.5	**1.8**	**0.77**	<100	<100	<100	<100
92494640	MW-18_20200909	MW-18	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-18_20201023	MW-18	10/23/2020	**7.8**	<0.5	<0.5	<0.5	<0.5	**5**	<0.5	<2	**1.4**	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	DUP-3-20201023	MW-18	10/23/2020	<5	<0.5	<0.5	<0.5	<0.5	**2.1**	<0.5	<2	**0.54**	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	MW-18_20201201	MW-18	12/01/2020	**38.6**	**65.9**	<0.5	<0.5	<0.5	**17.1**	**9.0**	<2	**4.9**	<2	<0.5	<0.5	**160**	**2.5**	<0.5	**26.4**	**18.2**	**987**	**155**	<100	**1180**
92495905	MW-19_20200916	MW-19	09/16/2020	<5	**0.8**	**3.3**	**30.8**	**0.79**	<0.5	<0.5	<2	<0.5	<2	<0.5	**2.4**	**1.4**	<0.5	<0.5	<1	0.53	<100	<100	<100	<100
92500605	MW-19_20201007	MW-19	10/07/2020	**7.8**	**0.9**	<0.5	**24.5**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	**2.6**	**1.9**	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501343	MW-19_20201020	MW-19	10/20/2020	**71.3**	<0.5	<0.5	**8.9**	<0.5	**1.3**	<0.5	<2	<0.5	<2	<0.5	**1.1**	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509252	MW-19_20201202	MW-19	12/02/2020	**13.7**	<0.5	**0.70**	**10.2**	<0.5	**1.2**	<0.5	<2	<0.5	<2	<0.5	**1.4**	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494640	MW-20_20200909	MW-20	09/09/2020	<5	<0.5	<0.5	**0.77**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-20_20201023	MW-20	10/23/2020	**12.5**	<0.5	<0.5	**0.57**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	MW-20_20201201	MW-20	12/01/2020	**26.1**	<0.5	<0.5	**1.3**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495905	MW-21_20200916	MW-21	09/16/2020	<5	<0.5	<0.5	**8**	<0.5	**1.2**	<0.5	<2	<0.5	<2	<0.5	**1.3**	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501343	MW-21_20201020	MW-21	10/20/2020	**8.1**	**38**	<0.5	**5.8**	<0.5	**12.2**	**2.2**	<2	**4.8**	<2	<0.5	**0.93**	**44.9**	**2.3**	<0.5	**14.2**	**7.7**	**187**	<100	<100	**251**
92508884	MW-21_20201201	MW-21	12/01/2020	**53.7**	**124**	<0.5	**4.5**	<0.5	**31.1**	**3.6**	<2	**12.2**	<2	<0.5	**0.82**	**46.8**	**7.7**	<0.5	**42.7**	**24.2**	**466**	**121**	<100	**630**
92494640	MW-22_20200909	MW-22	09/09/2020	<5	**14.5**	<0.5	<0.5	<0.5	**4.4**	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	**3.2**	<100	<100	<100	<100
92500608	MW-22_20201007	MW-22	10/07/2020	**9.4**	<0.5	<0.5	<0.5	<0.5	**1.8**	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-22_20201022	MW-22	10/22/2020	<5	<0.5	<0.5	<0.5	<0.5	**1.6**	<0.5	<2	<0.5	<2	<0.5	<0.5	**0.5**	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100

Table 4
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448 Incident
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	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**0.4**	**70**	**600**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**		**400**	**NE**	**NE**	**NE**
92496816	MW-23_20200920	MW-23	09/20/2020	<5	<0.5	**6.1**	**36.9**	**1.5**	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500605	MW-23R_20201007	MW-23	10/07/2020	**32.2**	<0.5	**0.56**	**3.2**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501343	MW-23R_20201020	MW-23	10/20/2020	**94.4**	<0.5	<0.5	**1.7**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508884	MW-23_20201201	MW-23	12/01/2020	**24.7**	<0.5	<0.5	**0.97**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495103	MW-25_20200911	MW-25	09/11/2020	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-25_20201023	MW-25	10/23/2020	**97.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	MW-25_20201201	MW-25	12/01/2020	**142**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494640	MW-26_20200909	MW-26	09/09/2020	<5	**7.7**	<0.5	<0.5	<0.5	**1.3**	**1.8**	<2	<0.5	<2	<0.5	<0.5	**22.6**	**0.69**	<0.5	**6.4**	**3.1**	<100	<100	<100	**114**
92494640	MW-27_20200909	MW-27	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-27_20201022	MW-27	10/22/2020	**18.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-27_20201130	MW-27	11/30/2020	**24.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494923	MW-28_20200909	MW-28	09/09/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501355	MW-28_20201020	MW-28	10/20/2020	**27.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509253	MW-28_20201202	MW-28	12/02/2020	**58.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495241	MW-29_20200913	MW-29	09/13/2020	<5	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-29_20201022	MW-29	10/22/2020	<5	<0.5	<0.5	**0.77**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	MW-29_20201203	MW-29	12/03/2020	**23.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495103	MW-30_20200911	MW-30	09/11/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-30_20201021	MW-30	10/21/2020	<5	<0.5	<0.5	**0.58**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-30_20201130	MW-30	11/30/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495239	MW-31_20200913	MW-31	09/13/2020	<5	**0.56**	<0.5	**1.7**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**3.1**	**0.61**	<0.5	**2.3**	**1.2**	<100	<100	<100	<100
92500605	MW-31_20201007	MW-31	10/07/2020	<5	<0.5	<0.5	**3**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**0.5**	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501343	MW-31_20201020	MW-31	10/20/2020	<5	<0.5	<0.5	**1.4**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509252	MW-31_20201202	MW-31	12/02/2020	**12.2**	<0.5	<0.5	**3.1**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494864	MW-32_20200910	MW-32	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-32_20201022	MW-32	10/22/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-32_20201130	MW-32	11/30/2020	**10.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494640	MW-33_20200909	MW-33	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-33_20201022	MW-33	10/22/2020	**16.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-33_20201130	MW-33	11/30/2020	**11.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494640	MW-34_20200909	MW-34	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-34_20201022	MW-34	10/22/2020	**5.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-34_20201130	MW-34	11/30/2020	**6.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494864	MW-35_20200910	MW-35	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-35_20201021	MW-35	10/21/2020	**9.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-35_20201130	MW-35	11/30/2020	**12.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100

Table 4
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448 Incident
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	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**0.4**	**70**	**600**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**		**400**	**NE**	**NE**	**NE**
92494864	MW-36_20200910	MW-36	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-36_20201021	MW-36	10/21/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-36_20201130	MW-36	11/30/2020	**18.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494864	MW-37_20200910	MW-37	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-37_20201021	MW-37	10/21/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-37_20201130	MW-37	11/30/2020	**9.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495907	MW-38_20200916	MW-38	09/16/2020	<5	**3.4**	**0.74**	**4.3**	<0.5	**2**	<0.5	<2	**0.78**	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-38_20201023	MW-38	10/23/2020	<5	**30.9**	<0.5	<0.5	<0.5	**28.4**	**3.4**	<2	**12.2**	<2	<0.5	<0.5	<0.5	**70.3**	<0.5	<0.5	**6.3**	**6.9**	**231**	<100	<100	**291**
92509560	MW-38_20201203	MW-38	12/03/2020	**22.4**	**125**	<0.5	<0.5	<0.5	**50.4**	**14.1**	<2	**19.0**	<2	<0.5	<0.5	**152**	**3.9**	<0.5	**45.7**	**30.8**	**681**	**153**	<100	**885**
92509560	Dup-3-20201203	MW-38	12/03/2020	**24.6**	**134**	<0.5	<0.5	<0.5	**51.8**	**14.6**	<2	**19.3**	<2	<0.5	<0.5	**162**	**4.2**	<0.5	**50.1**	**33.9**	**761**	**162**	<100	**969**
92495906	MW-39_20200916	MW-39	09/16/2020	<5	**966**	<5	**13.9**	<5	**83.3**	**124**	<20	**10.8**	<20	<5	<5	**1,980**	**61.1**	<5	**407**	**209**	**4,280**	**732**	**177**	**5190**
92495100	MW-40_20200911	MW-40	09/11/2020	<5	<0.5	<0.5	<0.5	<0.5	**3.2**	<0.5	<2	**1.3**	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501343	MW-40_20201020	MW-40	10/20/2020	**9.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508884	MW-40_20201201	MW-40	12/01/2020	**47.9**	**416**	<2.5	<2.5	<2.5	**27.7**	**37.7**	<10	**3.2**	<10	<2.5	<2.5	**829**	**71.1**	<2.5	**404**	**213**	**2770**	**1070**	**323**	**4070**
92495103	MW-41_20200911	MW-41	09/11/2020	<10	<0.5	<0.5	<0.5	<0.5	**0.72**	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-41_20201023	MW-41	10/23/2020	**18.2**	<0.5	<0.5	<0.5	<0.5	**2.3**	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	MW-41_20201203	MW-41	12/03/2020	**13.6**	**5.3**	<0.5	<0.5	<0.5	**1.6**	**0.68**	<2	<0.5	<2	<0.5	<0.5	**8.5**	<0.5	<0.5	**3.0**	**1.7**	<100	<100	<100	<100
92495626	MW-42_20200915	MW-42	09/15/2020	<5	**1.3**	**1.9**	**23.8**	<0.5	<0.5	**2.4**	<2	<0.5	<2	<0.5	<0.5	**10.8**	**5.3**	**1.4**	**13.3**	**6.2**	<100	<100	<100	**150**
92500606	MW-42_20201007	MW-42	09/13/2020	<5	**0.78**	**0.7**	**23.9**	<0.5	<0.5	**0.75**	<2	<0.5	<2	<0.5	<0.5	**1.8**	**1.3**	<0.5	**4.9**	**3.6**	<100	<100	<100	<100
92501344	MW-42_20201020	MW-42	10/20/2020	<5	<0.5	<0.5	**15.5**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509255	MW-42_20201202	MW-42	12/02/2020	<5	<0.5	<0.5	**10.6**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495907	MW-43_20200916	MW-43	09/16/2020	<5	<0.5	**1.8**	**12.1**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**1.4**	**0.58**	<0.5	**1.5**	**0.83**	<100	<100	<100	<100
92501960	MW-43_20201023	MW-43	10/23/2020	<5	<0.5	**0.51**	**5.8**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509250	MW-43_20201202	MW-43	12/02/2020	<5	<0.5	<0.5	**2.1**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495627	MW-44_20200915	MW-44	09/15/2020	**34.6**	**11.2**	<0.5	**18.5**	<0.5	<0.5	**8.4**	<2	<0.5	**2.1**	**0.78**	<0.5	**77.1**	**4.3**	**0.58**	**21.3**	**13.7**	**155**	<100	<100	**252**
92501345	MW-44_20201020	MW-44	10/20/2020	<5	**0.6**	<0.5	**1.2**	<0.5	<0.5	**0.53**	<2	<0.5	<2	<0.5	<0.5	**3**	**0.77**	<0.5	**2.7**	**1.4**	<100	<100	<100	<100
92508886	MW-44_20201201	MW-44	12/02/2020	**8.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**1.4**	**0.55**	<0.5	**1.3**	**0.56**	<100	<100	<100	<100
92495624	MW-45_20200915	MW-45	09/15/2020	<5	**2.8**	**1.4**	**20**	<0.5	<0.5	**3.1**	<2	<0.5	<2	<0.5	<0.5	**27.8**	**4.5**	**1.1**	**17.7**	**8.4**	<100	<100	<100	**154**
92499587	MW-45_20201007	MW-45	10/07/2020	<5	**1**	**0.64**	**15.8**	<0.5	<0.5	**0.88**	<2	<0.5	<2	<0.5	<0.5	**6.2**	**1.4**	<0.5	**6.7**	**3.7**	<100	<100	<100	<100
92501345	MW-45_20201020	MW-45	10/20/2020	**39.5**	<0.5	**0.58**	**11.7**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**0.91**	<0.5	<0.5	**1.3**	**0.74**	<100	<100	<100	<100
92509251	MW-45_20201202	MW-45	12/02/2020	**12.6**	<0.5	<0.5	**5.9**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495627	MW-46_20200915	MW-46	09/15/2020	<5	**1.6**	**2.5**	**26.2**	**0.58**	<0.5	**3.1**	<2	<0.5	<2	<0.5	<0.5	**17.3**	**3.7**	**0.83**	**15.5**	**6.6**	<100	<100	<100	**114**
92501345	MW-46_20201020	MW-46	10/20/2020	<5	<0.5	<0.5	**17.6**	<0.5	<0.5	**0.52**	<2	<0.5	<2	<0.5	<0.5	**1.2**	**1.4**	<0.5	**3.6**	**1.3**	<100	<100	<100	<100
92509251	MW-46_20201202	MW-46	12/02/2020	<5	<0.5	<0.5	**10.9**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495627	MW-47_20200915	MW-47	09/15/2020	**6.3**	<0.5	**2**	**16.5**	<0.5	<0.5	**1.4**	<2	<0.5	<2	<0.5	<0.5	**6.3**	**1.5**	<0.5	**5.2**	**2.4**	<100	<100	<100	<100

Table 4
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448 Incident
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	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**0.4**	**70**	**600**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**		**400**	**NE**	**NE**	**NE**
92496397	MW-48_20200918	MW-48	09/18/2020	**9.6**	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-48_20201022	MW-48	10/22/2020	**19.8**	**40.4**	<0.5	<0.5	<0.5	**19**	**4.1**	<2	<0.5	<2	<0.5	<0.5	**63.3**	**1.7**	<0.5	**12**	**7.9**	**1270**	<100	<100	**1300**
92501860	DUP-2-20201022	MW-48	10/22/2020	**27.4**	**37.1**	<0.5	<0.5	<0.5	**17.2**	**3.6**	<2	**5.8**	<2	<0.5	<0.5	**58.7**	**1.5**	<0.5	**10.7**	**6.9**	**1030**	<100	<100	**1060**
92496817	MW-49_20200922	MW-49	09/22/2020	**5.5**	<0.5	**1**	**11.7**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**1.1**	<0.5	<0.5	**1.6**	**1.1**	<100	<100	<100	<100
92499587	MW-49_20201007	MW-49	10/07/2020	<5	**0.61**	<0.5	**2.2**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501345	MW-49_20201020	MW-49	10/20/2020	**34.4**	<0.5	<0.5	**1.6**	<0.5	**0.65**	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509251	MW-49_20201202	MW-49	12/02/2020	**16.2**	<0.5	<0.5	<0.5	<0.5	**3.4**	<0.5	<2	**1.4**	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92497017	MW-50_20200922	MW-50	09/22/2020	**6.7**	**205**	<2	**5.9**	<2	**37.2**	**20.2**	<8	**24.3**	<8	<2	<2	**375**	**11**	<2	**77.3**	**54.2**	**1570**	**284**	<100	**1930**
92501345	MW-50_20201020	MW-50	10/20/2020	**19.2**	**1370**	<6.2	<6.2	<6.2	**208**	**144**	**35.8**	**138**	<25	<6.2	<6.2	**1980**	**89.2**	<6.2	**611**	**336**	**7750**	**1990**	**398**	**10100**
92509251	MW-50_20201202	MW-50	12/02/2020	<5	**3730**	<10	<10	<10	**482**	**406**	<40	**287**	**68.3**	<10	<10	**3760**	**270**	<10	**1950**	**962**	**18700**	**5620**	**934**	**6550**
92496817	MW-51_20200922	MW-51	09/22/2020	<5	**1.4**	**3.8**	**26.1**	**1.3**	<0.5	**0.84**	<2	<0.5	<2	<0.5	<0.5	**6.9**	**0.78**	<0.5	**3.6**	**5.7**	<100	<100	<100	<100
92499587	MW-51_20201007	MW-51	10/07/2020	<5	**1.4**	**1.6**	**19.3**	<0.5	<0.5	**0.71**	<2	<0.5	<2	<0.5	<0.5	**4.2**	**0.6**	<0.5	**2.5**	**2**	<100	<100	<100	<100
92499587	Dup-1-20201007	MW-51	10/07/2020	<5	**1.6**	**1.6**	**19.2**	<0.5	<0.5	**0.72**	<2	<0.5	<2	<0.5	<0.5	**4.8**	**0.7**	<0.5	**2.6**	**2.2**	<100	<100	<100	<100
92501615	MW-51_20201021	MW-51	10/21/2020	**5.1**	**0.52**	**0.95**	**13.4**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501615	DUP-1-20201021	MW-51	10/21/2020	<5	**0.5**	**0.92**	**13**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509251	MW-51_20201202	MW-51	12/02/2020	<5	<0.5	**0.55**	**6.5**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92497774	MW-52_20200928	MW-52	09/28/2020	**20.3**	**8.9**	**0.76**	**6.3**	<0.5	**5.7**	**1**	<2	**1.6**	<2	<0.5	<0.5	**19.9**	<0.5	<0.5	**2.7**	**1.6**	<100	<100	<100	**171**
92501960	MW-52_20201023	MW-52	10/23/2020	<5	**31**	<0.5	**1.8**	<0.5	**26.7**	**3.5**	<2	**7.3**	<2	<0.5	<0.5	**80.2**	**0.59**	<0.5	**7.2**	**6**	**281**	<100	<100	**341**
92508881	MW-52_20201201	MW-52	12/01/2020	**16.4**	**40.5**	<0.5	**0.53**	<0.5	**33.3**	**4.6**	<2	**8.8**	<2	<0.5	<0.5	**69.6**	**1.2**	<0.5	**12.7**	**9.9**	**296**	<100	<100	**365**
92499057	MW-53_20201006	MW-53	10/06/2020	**37.6**	<0.5	**2**	**22.9**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**0.72**	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-53_20201022	MW-53	10/22/2020	<5	<0.5	<0.5	**6.4**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	MW-53_20201203	MW-53	12/03/2020	**23.6**	<0.5	<0.5	**2.9**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	Dup-1-20201203	MW-53	12/03/2020	**32.9**	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92499057	MW-54_20201006	MW-54	10/06/2020	**8.2**	<0.5	**3**	**28.2**	**0.75**	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-54_20201022	MW-54	10/22/2020	<5	<0.5	**0.65**	**9.4**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	MW-54_20201203	MW-54	12/03/2020	**18.6**	<0.5	<0.5	**2.4**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	Dup-2-20201203	MW-54	12/03/2020	**14.7**	<0.5	<0.5	**2.9**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92499057	MW-55_20201006	MW-55	10/06/2020	<5	**99.7**	**0.92**	**6.9**	<0.5	**48**	**6**	<2	**19.6**	<2	<0.5	<0.5	**154**	**1.8**	<0.5	**24.5**	**20.4**	**455**	<100	<100	**566**
92499057	DUP-01-20201006	MW-55	10/06/2020	<5	**102**	**0.91**	**6.8**	<0.5	**48.9**	**6.1**	<2	**19.7**	<2	<0.5	<0.5	**157**	**1.9**	<0.5	**25.2**	**21**	**496**	<100	<100	**614**
92501960	MW-55_20201023	MW-55	10/23/2020	<5	**900**	<12.5	<12.5	<12.5	**144**	**457**	<50	<12.5	**85.7**	<12.5	<12.5	**3590**	**626**	<12.5	**1870**	**860**	**13000**	**4580**	**1720**	**6300**
92499057	MW-56_20201006	MW-56	10/06/2020	<5	<0.5	<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	<0.5	<100	<100	<100	<100
92501860	MW-56_20201022	MW-56	10/22/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	MW-56_20201203	MW-56	12/03/2020	**8.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92499057	MW-57_20201006	MW-57	10/06/2020	<5	<0.5	<0.5	**2.4**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-57_20201022	MW-57	10/22/2020	<5	<0.5	<0.5	**3**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	MW-57_20201203	MW-57	12/03/2020	**31.8**	<0.5	<0.5	**0.65**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100

Table 4
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448 Incident
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	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**0.4**	**70**	**600**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**		**400**	**NE**	**NE**	**NE**
92500608	MW-58_20201007	MW-58	10/07/2020	<5	<0.5	**2.8**	**15.6**	**0.61**	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-58_20201022	MW-58	10/22/2020	<5	<0.5	**1.8**	**9.5**	**0.5**	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	MW-58_20201201	MW-58	12/01/2020	**22.7**	<0.5	**0.76**	**3.8**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500608	MW-59_20201007	MW-59	10/07/2020	<5	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-59_20201021	MW-59	10/21/2020	<5	<0.5	<0.5	**2.5**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	MW-59_20201201	MW-59	12/01/2020	**31.6**	<0.5	<0.5	**1.8**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500607	MW-60_20201007	MW-60	10/07/2020	**18**	<0.5	**4.1**	**15.2**	**1.3**	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501345	MW-60_20201020	MW-60	10/20/2020	**20.4**	<0.5	**0.88**	**3.5**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508886	MW-60_20201201	MW-60	12/02/2020	**16.4**	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	MW-61_20201203	MW-61	12/03/2020	**30.9**	**3.3**	**5.5**	**31.0**	**1.3**	<0.5	**0.54**	<2	<0.5	<2	<0.5	<0.5	**7.9**	<0.5	<0.5	**1.4**	**0.87**	<100	<100	<100	<100
92509555	MW-62_20201203	MW-62	12/03/2020	<25	**0.67**	**4.8**	**22.2**	**1.2**	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**1.4**	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	MW-63_20201203	MW-63	12/03/2020	**6.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100

Table 4
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448 Incident
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	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**0.4**	**70**	**600**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**		**400**	**NE**	**NE**	**NE**
QC Data																								
92493062	TB-2	N/A	08/28/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92493708	Trip Blank	N/A	09/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92493864	Trip Blank	N/A	09/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494322	Trip Blank	N/A	09/03/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92496397	Trip Blank	N/A	09/18/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494640	Trip Blank-03	N/A	09/09/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494923	Trip Blank-03	N/A	09/09/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494864	Trip Blank-04	N/A	09/10/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495100	Trip Blank-05	N/A	09/11/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495103	Trip Blank-05	N/A	09/11/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495239	Trip Blank-06	N/A	09/13/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495241	Trip Blank-06	N/A	09/13/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495244	Trip Blank-06	N/A	09/13/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495624	Trip Blank-07	N/A	09/15/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495626	Trip Blank-07	N/A	09/15/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495627	Trip Blank-07	N/A	09/15/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495907	Trip Blank-07	N/A	09/16/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495905	Trip Blank-07	N/A	09/16/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495906	Trip Blank-07	N/A	09/16/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92496816	TB-20200922	N/A	09/20/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92496817	TB-20200922	N/A	09/22/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92497017	TB-20200923	N/A	09/22/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92497774	TB-20200928	N/A	09/28/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92499587	Trip Blank	N/A	10/07/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92500605	Trip Blank	N/A	10/07/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92500606	Trip Blank	N/A	10/07/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501343	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501344	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501345	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501355	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501615	Trip Blank	N/A	10/21/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501616	TRIP BLANK	N/A	10/21/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	NA
92501960	TRIP BLANK	N/A	10/23/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92508536	Trip Blank	N/A	11/30/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92508536	Trip Blank 2	N/A	11/30/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92508884	Trip Blank	N/A	12/01/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA

Table 4
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448 Incident
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	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**0.4**	**70**	**600**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**		**400**	**NE**	**NE**	**NE**
92509250	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509252	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509253	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509255	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509251	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92508881	Trip Blank	N/A	12/01/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509555	Trip Blank	N/A	12/03/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509560	Trip Blank	N/A	12/03/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92508886	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92499587	EB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92499587	FB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500605	EB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500605	FB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500606	EB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500606	FB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	FB-01-20201021	N/A	10/21/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	FB-2-20201022	N/A	10/22/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	FB-3-20201023	N/A	10/23/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	FB-01-20201130	N/A	11/30/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509251	FB-1-20201202	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	FB-1-20201203	N/A	12/03/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	FB-1-20201201	N/A	12/01/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100

Notes:
All data was collected and provided by AECOM
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
Shaded values indicate compound exceeded NCAC 2L Standard

Table 5
Summary of Water Supply Well Sampling Results

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

			Metals (µg/L)	VOCs (µg/L)	
Lab Report Number	Sample ID	Sample Date	Lead	Bromodichloromethane	Chloroform
		NCAC 2L	**15**	**0.6**	**70**
92492043	13736_PE_ Dr	8/22/2020	NA	NA	NA
92492904	13800_H/C_Rd	8/27/2020	**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
92491028	13822_HC_Rd	8/16/2020	**53.0**	<0.50	<0.50
92492032	13822_HC_Rd	8/21/2020	**14.2**	NA	NA
92492033	FD_08212020	8/21/2020	**10.3**	NA	NA
92493878	13822_HC_RD	09/02/2020	**11.6**	<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	**14.3**	<0.50	<0.50
92497407	13822_HC_RD 20200924	09/24/2020	**8.9**	<0.50	<0.50
92491385	13831_Sims_Rd	8/17/2020	<5.0	<0.50	<0.50
92492683	13831_Sims_Rd	8/25/2020	<5.0	<0.50	<0.50
92494137	13831_SIMS_RD	09/03/2020	<5.0	<0.50	<0.50

Table 5
Summary of Water Supply Well Sampling Results

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

			Metals (µg/L)	VOCs (µg/L)	
Lab Report Number	Sample ID	Sample Date	Lead	Bromodichloromethane	Chloroform
		NCAC 2L	15	0.6	70
92491367	13835_AC_Rd	8/17/2020	<5.0	<0.50	<0.50
92492460	13835_AC_Rd	8/25/2020	<5.0	<0.50	<0.50
92492469	FD1-08252020	8/25/2020	<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	**1.7**	**7.4**
92497409	13835_AC_RD 20200924	09/24/2020	**16.1**	<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
92491363	13901_Sims_Rd	8/17/2020	<5.0	<0.50	<0.50
92491368	FD1_081720	8/17/2020	<5.0	<0.50	<0.50
92492466	13901_Sims_Rd	8/25/2020	<5.0	<0.50	<0.50
92494138	13901_SIMS_RD	09/03/2020	<5.0	<0.50	<0.50
92491259	13920_Sims_Rd	8/17/2020	<5.0	<0.50	<0.50
92492462	13920_Sims_Rd	8/25/2020	<5.0	<0.50	<0.50
92494130	13920_SIMS_RD	09/03/2020	<5.0	<0.50	<0.50

Table 5
Summary of Water Supply Well Sampling Results

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

			Metals (µg/L)	VOCs (µg/L)	
Lab Report Number	Sample ID	Sample Date	Lead	Bromodichloromethane	Chloroform
		NCAC 2L	15	0.6	70
92491360	13923_AC_Rd	8/17/2020	<5.0	<0.50	<0.50
92492465	13923_AC_Rd	8/25/2020	<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	**5.5**	<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
92491030	13926A_HC_Rd	8/16/2020	<5.0	<0.50	<0.50
92492029	13926A_HC_Rd	8/21/2020	<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	**5.2**	<0.50	<0.50
92502951	13926A_HC_RD_20201029	10/29/2020	**6.6**	<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	**8.2**
92507401	13926A_HC_RD	11/19/2020	**5.8**	<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	**5.9**	<0.50	<0.50

Table 5
Summary of Water Supply Well Sampling Results

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

			Metals (µg/L)	VOCs (µg/L)	
Lab Report Number	**Sample ID**	**Sample Date**	**Lead**	**Bromodichloromethane**	**Chloroform**
		NCAC 2L	**15**	**0.6**	**70**
92491030	13926B_HC_Rd	8/16/2020	<5.0	<0.50	**8.9**
92492030	13926B_HC_Rd	8/21/2020	NA	NA	**8.4**
92493891	13926B_HC_RD	09/02/2020	<5.0	<0.50	**9.4**
92495059	13926B_HC_RD	09/10/2020	<5.0	<0.50	**7.6**
92495941	13926B_HC_RD_20200916	09/16/2020	<5.0	<0.50	**9.6**
92495930	Field_Duplicate 09-16-2020	09/16/2020	<5.0	<0.50	**10.1**
92497412	13926B_HC_RD 20200924	09/24/2020	<5.0	<0.50	**9.8**
92498128	13926B_HC_RD_20200930	09/30/2020	<5.0	<0.50	**6.3**
92499661	13926B_HC_RD_20201008	10/08/2020	<5.0	<0.50	**9.3**
92500720	13926B_HC_RD_20201015	10/15/2020	<5.0	<0.50	**8.9**
92501809	13926B_HC_RD_20201022	10/22/2020	<5.0	<0.50	**8.7**
92502943	13926B_HC_RD_20201029	10/29/2020	<5.0	<0.50	**8.9**
92504284	13926B_HC_RD_20201105	11/05/2020	<5.0	<0.50	**9.2**
92506050	13926B_HC_RD	11/12/2020	<5.0	<0.50	<0.50
92507398	13926B_HC_RD	11/19/2020	<5.0	<0.50	**7**
92508014	13926B_HC_RD_20201124	11/24/2020	<5.0	<0.50	**8.7**
92508823	13926B_HC_RD 20201201	12/01/2020	**6.6**	<0.50	**6.8**
92492031	13937_AC_Rd	8/21/2020	<5.0	<0.50	<0.50
92492463	13937_AC_Rd	8/25/2020	<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

Table 5
Summary of Water Supply Well Sampling Results

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

			Metals (µg/L)	VOCs (µg/L)	
Lab Report Number	Sample ID	Sample Date	Lead	Bromodichloromethane	Chloroform
		NCAC 2L	15	0.6	70
92491152	13945_AC_Rd	8/17/2020	<5.0	<0.50	<0.50
92492461	13945_AC_Rd	8/25/2020	<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	**5.6**	<0.50	<0.50
92508713	13945_AC_Rd_20201201	12/01/2020	<5.0	<0.50	<0.50
92491555	14015 ASBURY CHAPEL RD	8/18/2020	<5.0	<0.50	<0.50
92492468	14015_AC_Rd	8/25/2020	<5.0	<0.50	**1.5**
92493886	14015_AC_RD	09/02/2020	<5.0	<0.50	**4.4**
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

Table 5
Summary of Water Supply Well Sampling Results

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

			Metals (µg/L)	VOCs (µg/L)	
Lab Report Number	Sample ID	Sample Date	Lead	Bromodichloromethane	Chloroform
		NCAC 2L	15	0.6	70
92491361	14024_Sims_Rd	8/17/2020	<5.0	<0.50	<0.50
92492464	14024_Sims_Rd	8/25/2020	<5.0	<0.50	<0.50
92494133	14024_SIMS_RD	09/03/2020	<5.0	<0.50	<0.50
92493111	14037_Lawther_Rd	08/30/2020	**37.3**	<0.50	<0.50
92495188	14037_LAWTHER_RD	09/11/2020	**23.1**	<0.50	<0.50
92491027	14108_HC_Rd	8/15/2020	<5.0	<0.50	<0.50
92492688	14108_HC_Rd	8/25/2020	<5.0	<0.50	<0.50
92491029	14226_HC_ Rd	8/16/2020	<5.0	<0.50	<0.50
92492685	14226_HC_Rd	8/25/2020	<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	**6.1**	<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
92508835	14226_HC_RD_20201201	12/01/2020	<5.0	<0.50	<0.50

Table 5
Summary of Water Supply Well Sampling Results

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

			Metals (µg/L)	VOCs (µg/L)	
Lab Report Number	Sample ID	Sample Date	Lead	Bromodichloromethane	Chloroform
		NCAC 2L	15	0.6	70
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	<0.50	<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	**5.8**	<0.50	<0.50
92492048	15104_PL_Dr	8/22/2020	NA	NA	NA
92492044	15110_PL_ Dr	8/22/2020	NA	NA	NA
92492047	15120_PL_Dr	8/22/2020	NA	NA	NA
92492046	15128_PL_ Dr	8/22/2020	NA	NA	NA
92492045	15136_PL_ Dr	8/22/2020	NA	NA	NA
92491031	16366_HC_Rd	8/16/2020	<5.0	<0.50	<0.50
92492689	HOA_Lawn	8/26/2020	<5.0	<0.50	<0.50
92492686	FD1_08262020	8/26/2020	<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

Table 5
Summary of Water Supply Well Sampling Results

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

			Metals (µg/L)	VOCs (µg/L)	
Lab Report Number	Sample ID	Sample Date	Lead	Bromodichloromethane	Chloroform
		NCAC 2L	15	0.6	70
QC Data					
92497418	FB-1	09/24/2020	<5.0	<0.50	<0.50
92492469	Field Blank	8/25/2020	<5.0	<0.50	<0.50
92492905	Field Blank	8/27/2020	<5.0	<0.50	<0.50
92492033	Field_Blank	8/21/2020	<5.0	NA	NA
92492686	Field_Blank	8/26/2020	<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	8/17/2020	<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
92492469	Trip Blank	8/25/2020	NA	<0.50	<0.50
92492905	Trip Blank	8/27/2020	NA	<0.50	<0.50
92491368	TRIP_BLANK	8/17/2020	NA	<0.50	<0.50
92491387	TRIP_BLANK	8/18/2020	NA	<0.50	<0.50
92491555	TRIP_BLANK	8/18/2020	NA	<0.50	<0.50
92492033	Trip_Blank	8/21/2020	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

Table 5
Summary of Water Supply Well Sampling Results

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

			Metals (µg/L)	VOCs (µg/L)	
Lab Report Number	Sample ID	Sample Date	Lead	Bromodichloromethane	Chloroform
		NCAC 2L	15	0.6	70
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

Notes:
NA - Not Analyzed
All units reported in micrograms per liter (µg/L).
Only detected consituents are shown.
MADEP - Massachusetts Department of Environmental Protection
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 02, 2020

Andrew Street
Apex Companies
5900-O Northwoods Business
Parkway
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

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

Sincerely,

Angela M. Baioni

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

Enclosures

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506486

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, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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-W**	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486014	**100-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486015	**100-E**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486016	**125-W**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486017	**125-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486018	**125-E**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486019	**150-W**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486020	**175-E**	MADEP VPH	ADM, DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486021	**150-W**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486022	**150-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486023	**175-W**	MADEP VPH	ADM, DWR	6	PAN
		EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KBC	1	PAN
92506486024	**175-B**	MADEP VPH	ADM, DWR	6	PAN
		EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KBC	1	PAN

PAN = Pace National - Mt. Juliet

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**3.97J**	mg/kg	8.86	2.96	1	11/15/20 10:55	11/23/20 19:11		J
Aliphatic (C09-C12)	**<8.86**	mg/kg	8.86	2.96	1	11/15/20 10:55	11/23/20 19:11		
Aromatic (C09-C10),Unadjusted	**<8.86**	mg/kg	8.86	2.96	1	11/15/20 10:55	11/23/20 19:11	TPHC9C10A	
Total VPH	**3.97J**	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	**<0.0880**	mg/kg	0.0880	0.0643	1	11/15/20 10:55	11/23/20 13:52	67-64-1	
Acrylonitrile	**<0.0220**	mg/kg	0.0220	0.00636	1	11/15/20 10:55	11/23/20 13:52	107-13-1	
Benzene	**0.138**	mg/kg	0.00176	0.000822	1	11/15/20 10:55	11/23/20 13:52	71-43-2	
Bromobenzene	**<0.0220**	mg/kg	0.0220	0.00158	1	11/15/20 10:55	11/23/20 13:52	108-86-1	
Bromodichloromethane	**<0.00440**	mg/kg	0.00440	0.00128	1	11/15/20 10:55	11/23/20 13:52	75-27-4	
Bromoform	**<0.0440**	mg/kg	0.0440	0.00206	1	11/15/20 10:55	11/23/20 13:52	75-25-2	
Bromomethane	**<0.0220**	mg/kg	0.0220	0.00347	1	11/15/20 10:55	11/23/20 13:52	74-83-9	
n-Butylbenzene	**<0.0220**	mg/kg	0.0220	0.00925	1	11/15/20 10:55	11/23/20 13:52	104-51-8	
sec-Butylbenzene	**<0.0220**	mg/kg	0.0220	0.00507	1	11/15/20 10:55	11/23/20 13:52	135-98-8	
tert-Butylbenzene	**<0.00880**	mg/kg	0.00880	0.00343	1	11/15/20 10:55	11/23/20 13:52	98-06-6	
Carbon tetrachloride	**<0.00880**	mg/kg	0.00880	0.00158	1	11/15/20 10:55	11/23/20 13:52	56-23-5	
Chlorobenzene	**<0.00440**	mg/kg	0.00440	0.000370	1	11/15/20 10:55	11/23/20 13:52	108-90-7	
Dibromochloromethane	**<0.00440**	mg/kg	0.00440	0.00108	1	11/15/20 10:55	11/23/20 13:52	124-48-1	
Chloroethane	**<0.00880**	mg/kg	0.00880	0.00299	1	11/15/20 10:55	11/23/20 13:52	75-00-3	
Chloroform	**<0.00440**	mg/kg	0.00440	0.00181	1	11/15/20 10:55	11/23/20 13:52	67-66-3	
Chloromethane	**<0.0220**	mg/kg	0.0220	0.00766	1	11/15/20 10:55	11/23/20 13:52	74-87-3	
2-Chlorotoluene	**<0.00440**	mg/kg	0.00440	0.00152	1	11/15/20 10:55	11/23/20 13:52	95-49-8	
4-Chlorotoluene	**<0.00880**	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	**<0.0440**	mg/kg	0.0440	0.00687	1	11/15/20 10:55	11/23/20 13:52	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00440**	mg/kg	0.00440	0.00114	1	11/15/20 10:55	11/23/20 13:52	106-93-4	
Dibromomethane	**<0.00880**	mg/kg	0.00880	0.00132	1	11/15/20 10:55	11/23/20 13:52	74-95-3	
1,2-Dichlorobenzene	**<0.00880**	mg/kg	0.00880	0.000748	1	11/15/20 10:55	11/23/20 13:52	95-50-1	
1,3-Dichlorobenzene	**<0.00880**	mg/kg	0.00880	0.00106	1	11/15/20 10:55	11/23/20 13:52	541-73-1	
1,4-Dichlorobenzene	**<0.00880**	mg/kg	0.00880	0.00123	1	11/15/20 10:55	11/23/20 13:52	106-46-7	
Dichlorodifluoromethane	**<0.00440**	mg/kg	0.00440	0.00284	1	11/15/20 10:55	11/23/20 13:52	75-71-8	
1,1-Dichloroethane	**<0.00440**	mg/kg	0.00440	0.000865	1	11/15/20 10:55	11/23/20 13:52	75-34-3	
1,2-Dichloroethane	**<0.00440**	mg/kg	0.00440	0.00114	1	11/15/20 10:55	11/23/20 13:52	107-06-2	
1,1-Dichloroethene	**<0.00440**	mg/kg	0.00440	0.00107	1	11/15/20 10:55	11/23/20 13:52	75-35-4	
cis-1,2-Dichloroethene	**<0.00440**	mg/kg	0.00440	0.00129	1	11/15/20 10:55	11/23/20 13:52	156-59-2	
trans-1,2-Dichloroethene	**<0.00880**	mg/kg	0.00880	0.00183	1	11/15/20 10:55	11/23/20 13:52	156-60-5	
1,2-Dichloropropane	**<0.00880**	mg/kg	0.00880	0.00250	1	11/15/20 10:55	11/23/20 13:52	78-87-5	
1,1-Dichloropropene	**<0.00440**	mg/kg	0.00440	0.00142	1	11/15/20 10:55	11/23/20 13:52	563-58-6	
1,3-Dichloropropane	**<0.00880**	mg/kg	0.00880	0.000882	1	11/15/20 10:55	11/23/20 13:52	142-28-9	
cis-1,3-Dichloropropene	**<0.00440**	mg/kg	0.00440	0.00133	1	11/15/20 10:55	11/23/20 13:52	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**7.03J**	mg/kg	8.68	2.90	1	11/15/20 14:40	11/23/20 20:50		J
Aliphatic (C09-C12)	**3.99J**	mg/kg	8.68	2.90	1	11/15/20 14:40	11/23/20 20:50		J
Aromatic (C09-C10),Unadjusted	**<8.68**	mg/kg	8.68	2.90	1	11/15/20 14:40	11/23/20 20:50	TPHC9C10A	
Total VPH	**11.0**	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	**<0.0889**	mg/kg	0.0889	0.0649	1	11/15/20 14:40	11/23/20 14:49	67-64-1	
Acrylonitrile	**<0.0222**	mg/kg	0.0222	0.00642	1	11/15/20 14:40	11/23/20 14:49	107-13-1	
Benzene	**0.444**	mg/kg	0.00178	0.000830	1	11/15/20 14:40	11/23/20 14:49	71-43-2	
Bromobenzene	**<0.0222**	mg/kg	0.0222	0.00160	1	11/15/20 14:40	11/23/20 14:49	108-86-1	
Bromodichloromethane	**<0.00444**	mg/kg	0.00444	0.00129	1	11/15/20 14:40	11/23/20 14:49	75-27-4	
Bromoform	**<0.0444**	mg/kg	0.0444	0.00208	1	11/15/20 14:40	11/23/20 14:49	75-25-2	
Bromomethane	**<0.0222**	mg/kg	0.0222	0.00350	1	11/15/20 14:40	11/23/20 14:49	74-83-9	
n-Butylbenzene	**<0.0222**	mg/kg	0.0222	0.00933	1	11/15/20 14:40	11/23/20 14:49	104-51-8	
sec-Butylbenzene	**<0.0222**	mg/kg	0.0222	0.00512	1	11/15/20 14:40	11/23/20 14:49	135-98-8	
tert-Butylbenzene	**<0.00889**	mg/kg	0.00889	0.00347	1	11/15/20 14:40	11/23/20 14:49	98-06-6	
Carbon tetrachloride	**<0.00889**	mg/kg	0.00889	0.00160	1	11/15/20 14:40	11/23/20 14:49	56-23-5	
Chlorobenzene	**<0.00444**	mg/kg	0.00444	0.000373	1	11/15/20 14:40	11/23/20 14:49	108-90-7	
Dibromochloromethane	**<0.00444**	mg/kg	0.00444	0.00109	1	11/15/20 14:40	11/23/20 14:49	124-48-1	
Chloroethane	**<0.00889**	mg/kg	0.00889	0.00302	1	11/15/20 14:40	11/23/20 14:49	75-00-3	
Chloroform	**<0.00444**	mg/kg	0.00444	0.00183	1	11/15/20 14:40	11/23/20 14:49	67-66-3	
Chloromethane	**<0.0222**	mg/kg	0.0222	0.00773	1	11/15/20 14:40	11/23/20 14:49	74-87-3	
2-Chlorotoluene	**<0.00444**	mg/kg	0.00444	0.00154	1	11/15/20 14:40	11/23/20 14:49	95-49-8	
4-Chlorotoluene	**<0.00889**	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	**<0.0444**	mg/kg	0.0444	0.00693	1	11/15/20 14:40	11/23/20 14:49	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00444**	mg/kg	0.00444	0.00115	1	11/15/20 14:40	11/23/20 14:49	106-93-4	
Dibromomethane	**<0.00889**	mg/kg	0.00889	0.00133	1	11/15/20 14:40	11/23/20 14:49	74-95-3	
1,2-Dichlorobenzene	**<0.00889**	mg/kg	0.00889	0.000756	1	11/15/20 14:40	11/23/20 14:49	95-50-1	
1,3-Dichlorobenzene	**<0.00889**	mg/kg	0.00889	0.00107	1	11/15/20 14:40	11/23/20 14:49	541-73-1	
1,4-Dichlorobenzene	**<0.00889**	mg/kg	0.00889	0.00124	1	11/15/20 14:40	11/23/20 14:49	106-46-7	
Dichlorodifluoromethane	**<0.00444**	mg/kg	0.00444	0.00286	1	11/15/20 14:40	11/23/20 14:49	75-71-8	
1,1-Dichloroethane	**<0.00444**	mg/kg	0.00444	0.000873	1	11/15/20 14:40	11/23/20 14:49	75-34-3	
1,2-Dichloroethane	**<0.00444**	mg/kg	0.00444	0.00115	1	11/15/20 14:40	11/23/20 14:49	107-06-2	
1,1-Dichloroethene	**<0.00444**	mg/kg	0.00444	0.00108	1	11/15/20 14:40	11/23/20 14:49	75-35-4	
cis-1,2-Dichloroethene	**<0.00444**	mg/kg	0.00444	0.00131	1	11/15/20 14:40	11/23/20 14:49	156-59-2	
trans-1,2-Dichloroethene	**<0.00889**	mg/kg	0.00889	0.00185	1	11/15/20 14:40	11/23/20 14:49	156-60-5	
1,2-Dichloropropane	**<0.00889**	mg/kg	0.00889	0.00252	1	11/15/20 14:40	11/23/20 14:49	78-87-5	
1,1-Dichloropropene	**<0.00444**	mg/kg	0.00444	0.00144	1	11/15/20 14:40	11/23/20 14:49	563-58-6	
1,3-Dichloropropane	**<0.00889**	mg/kg	0.00889	0.000891	1	11/15/20 14:40	11/23/20 14:49	142-28-9	
cis-1,3-Dichloropropene	**<0.00444**	mg/kg	0.00444	0.00135	1	11/15/20 14:40	11/23/20 14:49	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**4.26J**	mg/kg	8.83	2.95	1	11/15/20 14:55	11/23/20 21:23		J
Aliphatic (C09-C12)	**3.34J**	mg/kg	8.83	2.95	1	11/15/20 14:55	11/23/20 21:23		J
Aromatic (C09-C10),Unadjusted	**<8.83**	mg/kg	8.83	2.95	1	11/15/20 14:55	11/23/20 21:23	TPHC9C10A	
Total VPH	**7.60J**	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	**<0.0903**	mg/kg	0.0903	0.0659	1	11/15/20 14:55	11/23/20 15:07	67-64-1	
Acrylonitrile	**<0.0226**	mg/kg	0.0226	0.00652	1	11/15/20 14:55	11/23/20 15:07	107-13-1	
Benzene	**0.0143**	mg/kg	0.00181	0.000843	1	11/15/20 14:55	11/23/20 15:07	71-43-2	
Bromobenzene	**<0.0226**	mg/kg	0.0226	0.00162	1	11/15/20 14:55	11/23/20 15:07	108-86-1	
Bromodichloromethane	**<0.00451**	mg/kg	0.00451	0.00131	1	11/15/20 14:55	11/23/20 15:07	75-27-4	
Bromoform	**<0.0451**	mg/kg	0.0451	0.00211	1	11/15/20 14:55	11/23/20 15:07	75-25-2	
Bromomethane	**<0.0226**	mg/kg	0.0226	0.00356	1	11/15/20 14:55	11/23/20 15:07	74-83-9	
n-Butylbenzene	**<0.0226**	mg/kg	0.0226	0.00948	1	11/15/20 14:55	11/23/20 15:07	104-51-8	
sec-Butylbenzene	**<0.0226**	mg/kg	0.0226	0.00520	1	11/15/20 14:55	11/23/20 15:07	135-98-8	
tert-Butylbenzene	**<0.00903**	mg/kg	0.00903	0.00352	1	11/15/20 14:55	11/23/20 15:07	98-06-6	
Carbon tetrachloride	**<0.00903**	mg/kg	0.00903	0.00162	1	11/15/20 14:55	11/23/20 15:07	56-23-5	
Chlorobenzene	**<0.00451**	mg/kg	0.00451	0.000379	1	11/15/20 14:55	11/23/20 15:07	108-90-7	
Dibromochloromethane	**<0.00451**	mg/kg	0.00451	0.00110	1	11/15/20 14:55	11/23/20 15:07	124-48-1	
Chloroethane	**<0.00903**	mg/kg	0.00903	0.00307	1	11/15/20 14:55	11/23/20 15:07	75-00-3	
Chloroform	**<0.00451**	mg/kg	0.00451	0.00186	1	11/15/20 14:55	11/23/20 15:07	67-66-3	
Chloromethane	**<0.0226**	mg/kg	0.0226	0.00785	1	11/15/20 14:55	11/23/20 15:07	74-87-3	
2-Chlorotoluene	**<0.00451**	mg/kg	0.00451	0.00156	1	11/15/20 14:55	11/23/20 15:07	95-49-8	
4-Chlorotoluene	**<0.00903**	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	**<0.0451**	mg/kg	0.0451	0.00704	1	11/15/20 14:55	11/23/20 15:07	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00451**	mg/kg	0.00451	0.00117	1	11/15/20 14:55	11/23/20 15:07	106-93-4	
Dibromomethane	**<0.00903**	mg/kg	0.00903	0.00135	1	11/15/20 14:55	11/23/20 15:07	74-95-3	
1,2-Dichlorobenzene	**<0.00903**	mg/kg	0.00903	0.000767	1	11/15/20 14:55	11/23/20 15:07	95-50-1	
1,3-Dichlorobenzene	**<0.00903**	mg/kg	0.00903	0.00108	1	11/15/20 14:55	11/23/20 15:07	541-73-1	
1,4-Dichlorobenzene	**<0.00903**	mg/kg	0.00903	0.00126	1	11/15/20 14:55	11/23/20 15:07	106-46-7	
Dichlorodifluoromethane	**<0.00451**	mg/kg	0.00451	0.00291	1	11/15/20 14:55	11/23/20 15:07	75-71-8	
1,1-Dichloroethane	**<0.00451**	mg/kg	0.00451	0.000886	1	11/15/20 14:55	11/23/20 15:07	75-34-3	
1,2-Dichloroethane	**<0.00451**	mg/kg	0.00451	0.00117	1	11/15/20 14:55	11/23/20 15:07	107-06-2	
1,1-Dichloroethene	**<0.00451**	mg/kg	0.00451	0.00109	1	11/15/20 14:55	11/23/20 15:07	75-35-4	
cis-1,2-Dichloroethene	**<0.00451**	mg/kg	0.00451	0.00133	1	11/15/20 14:55	11/23/20 15:07	156-59-2	
trans-1,2-Dichloroethene	**<0.00903**	mg/kg	0.00903	0.00188	1	11/15/20 14:55	11/23/20 15:07	156-60-5	
1,2-Dichloropropane	**<0.00903**	mg/kg	0.00903	0.00256	1	11/15/20 14:55	11/23/20 15:07	78-87-5	
1,1-Dichloropropene	**<0.00451**	mg/kg	0.00451	0.00146	1	11/15/20 14:55	11/23/20 15:07	563-58-6	
1,3-Dichloropropane	**<0.00903**	mg/kg	0.00903	0.000904	1	11/15/20 14:55	11/23/20 15:07	142-28-9	
cis-1,3-Dichloropropene	**<0.00451**	mg/kg	0.00451	0.00137	1	11/15/20 14:55	11/23/20 15:07	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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
Surrogates									
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	
VOA (GC/MS) 8260D	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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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
Surrogates									
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	
VOA (GC/MS) 8260D	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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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)	**<6.54**	mg/kg	6.54	2.18	1	11/16/20 14:21	11/25/20 17:57		
Aromatic (C09-C10),Unadjusted	**<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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**2.53J**	mg/kg	6.39	2.13	1.05	11/16/20 13:40	11/25/20 18:30		J
Aliphatic (C09-C12)	**<6.39**	mg/kg	6.39	2.13	1.05	11/16/20 13:40	11/25/20 18:30		
Aromatic (C09-C10),Unadjusted	**<6.39**	mg/kg	6.39	2.13	1.05	11/16/20 13:40	11/25/20 18:30	TPHC9C10A	
Total VPH	**2.53J**	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	**<0.0616**	mg/kg	0.0616	0.0450	1	11/16/20 13:40	11/25/20 00:43	67-64-1	
Acrylonitrile	**<0.0154**	mg/kg	0.0154	0.00445	1	11/16/20 13:40	11/25/20 00:43	107-13-1	
Benzene	**0.0172**	mg/kg	0.00123	0.000575	1	11/16/20 13:40	11/25/20 00:43	71-43-2	
Bromobenzene	**<0.0154**	mg/kg	0.0154	0.00111	1	11/16/20 13:40	11/25/20 00:43	108-86-1	
Bromodichloromethane	**<0.00308**	mg/kg	0.00308	0.000893	1	11/16/20 13:40	11/25/20 00:43	75-27-4	
Bromoform	**<0.0308**	mg/kg	0.0308	0.00144	1	11/16/20 13:40	11/25/20 00:43	75-25-2	
Bromomethane	**<0.0154**	mg/kg	0.0154	0.00243	1	11/16/20 13:40	11/25/20 00:43	74-83-9	
n-Butylbenzene	**<0.0154**	mg/kg	0.0154	0.00647	1	11/16/20 13:40	11/25/20 00:43	104-51-8	
sec-Butylbenzene	**<0.0154**	mg/kg	0.0154	0.00355	1	11/16/20 13:40	11/25/20 00:43	135-98-8	
tert-Butylbenzene	**<0.00616**	mg/kg	0.00616	0.00240	1	11/16/20 13:40	11/25/20 00:43	98-06-6	
Carbon tetrachloride	**<0.00616**	mg/kg	0.00616	0.00111	1	11/16/20 13:40	11/25/20 00:43	56-23-5	
Chlorobenzene	**<0.00308**	mg/kg	0.00308	0.000259	1	11/16/20 13:40	11/25/20 00:43	108-90-7	
Dibromochloromethane	**<0.00308**	mg/kg	0.00308	0.000754	1	11/16/20 13:40	11/25/20 00:43	124-48-1	
Chloroethane	**<0.00616**	mg/kg	0.00616	0.00209	1	11/16/20 13:40	11/25/20 00:43	75-00-3	
Chloroform	**<0.00308**	mg/kg	0.00308	0.00127	1	11/16/20 13:40	11/25/20 00:43	67-66-3	
Chloromethane	**<0.0154**	mg/kg	0.0154	0.00536	1	11/16/20 13:40	11/25/20 00:43	74-87-3	
2-Chlorotoluene	**<0.00308**	mg/kg	0.00308	0.00107	1	11/16/20 13:40	11/25/20 00:43	95-49-8	
4-Chlorotoluene	**<0.00616**	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	**<0.0308**	mg/kg	0.0308	0.00480	1	11/16/20 13:40	11/25/20 00:43	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00308**	mg/kg	0.00308	0.000798	1	11/16/20 13:40	11/25/20 00:43	106-93-4	
Dibromomethane	**<0.00616**	mg/kg	0.00616	0.000924	1	11/16/20 13:40	11/25/20 00:43	74-95-3	
1,2-Dichlorobenzene	**<0.00616**	mg/kg	0.00616	0.000523	1	11/16/20 13:40	11/25/20 00:43	95-50-1	
1,3-Dichlorobenzene	**<0.00616**	mg/kg	0.00616	0.000739	1	11/16/20 13:40	11/25/20 00:43	541-73-1	
1,4-Dichlorobenzene	**<0.00616**	mg/kg	0.00616	0.000862	1	11/16/20 13:40	11/25/20 00:43	106-46-7	
Dichlorodifluoromethane	**<0.00308**	mg/kg	0.00308	0.00198	1	11/16/20 13:40	11/25/20 00:43	75-71-8	
1,1-Dichloroethane	**<0.00308**	mg/kg	0.00308	0.000605	1	11/16/20 13:40	11/25/20 00:43	75-34-3	
1,2-Dichloroethane	**<0.00308**	mg/kg	0.00308	0.000799	1	11/16/20 13:40	11/25/20 00:43	107-06-2	
1,1-Dichloroethene	**<0.00308**	mg/kg	0.00308	0.000746	1	11/16/20 13:40	11/25/20 00:43	75-35-4	L0
cis-1,2-Dichloroethene	**<0.00308**	mg/kg	0.00308	0.000904	1	11/16/20 13:40	11/25/20 00:43	156-59-2	
trans-1,2-Dichloroethene	**<0.00616**	mg/kg	0.00616	0.00128	1	11/16/20 13:40	11/25/20 00:43	156-60-5	
1,2-Dichloropropane	**<0.00616**	mg/kg	0.00616	0.00175	1	11/16/20 13:40	11/25/20 00:43	78-87-5	
1,1-Dichloropropene	**<0.00308**	mg/kg	0.00308	0.000996	1	11/16/20 13:40	11/25/20 00:43	563-58-6	
1,3-Dichloropropane	**<0.00616**	mg/kg	0.00616	0.000617	1	11/16/20 13:40	11/25/20 00:43	142-28-9	
cis-1,3-Dichloropropene	**<0.00308**	mg/kg	0.00308	0.000932	1	11/16/20 13:40	11/25/20 00:43	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506486

Sample: 150-W **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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**3.86J**	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03		J
Aliphatic (C09-C12)	**<6.99**	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03		
Aromatic (C09-C10),Unadjusted	**<6.99**	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03	TPHC9C10A	
Total VPH	**3.86J**	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03	VPH	J
Surrogates									
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	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet								
Acetone	**<0.0684**	mg/kg	0.0684	0.0499	1	11/16/20 16:40	11/25/20 01:02	67-64-1	
Acrylonitrile	**<0.0171**	mg/kg	0.0171	0.00494	1	11/16/20 16:40	11/25/20 01:02	107-13-1	
Benzene	**0.0830**	mg/kg	0.00137	0.000639	1	11/16/20 16:40	11/25/20 01:02	71-43-2	
Bromobenzene	**<0.0171**	mg/kg	0.0171	0.00123	1	11/16/20 16:40	11/25/20 01:02	108-86-1	
Bromodichloromethane	**<0.00342**	mg/kg	0.00342	0.000992	1	11/16/20 16:40	11/25/20 01:02	75-27-4	
Bromoform	**<0.0342**	mg/kg	0.0342	0.00160	1	11/16/20 16:40	11/25/20 01:02	75-25-2	
Bromomethane	**<0.0171**	mg/kg	0.0171	0.00269	1	11/16/20 16:40	11/25/20 01:02	74-83-9	
n-Butylbenzene	**<0.0171**	mg/kg	0.0171	0.00718	1	11/16/20 16:40	11/25/20 01:02	104-51-8	
sec-Butylbenzene	**<0.0171**	mg/kg	0.0171	0.00394	1	11/16/20 16:40	11/25/20 01:02	135-98-8	
tert-Butylbenzene	**<0.00684**	mg/kg	0.00684	0.00267	1	11/16/20 16:40	11/25/20 01:02	98-06-6	
Carbon tetrachloride	**<0.00684**	mg/kg	0.00684	0.00123	1	11/16/20 16:40	11/25/20 01:02	56-23-5	
Chlorobenzene	**<0.00342**	mg/kg	0.00342	0.000287	1	11/16/20 16:40	11/25/20 01:02	108-90-7	
Dibromochloromethane	**<0.00342**	mg/kg	0.00342	0.000837	1	11/16/20 16:40	11/25/20 01:02	124-48-1	
Chloroethane	**<0.00684**	mg/kg	0.00684	0.00233	1	11/16/20 16:40	11/25/20 01:02	75-00-3	
Chloroform	**<0.00342**	mg/kg	0.00342	0.00141	1	11/16/20 16:40	11/25/20 01:02	67-66-3	
Chloromethane	**<0.0171**	mg/kg	0.0171	0.00595	1	11/16/20 16:40	11/25/20 01:02	74-87-3	
2-Chlorotoluene	**<0.00342**	mg/kg	0.00342	0.00118	1	11/16/20 16:40	11/25/20 01:02	95-49-8	
4-Chlorotoluene	**<0.00684**	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	**<0.0342**	mg/kg	0.0342	0.00533	1	11/16/20 16:40	11/25/20 01:02	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00342**	mg/kg	0.00342	0.000886	1	11/16/20 16:40	11/25/20 01:02	106-93-4	
Dibromomethane	**<0.00684**	mg/kg	0.00684	0.00103	1	11/16/20 16:40	11/25/20 01:02	74-95-3	
1,2-Dichlorobenzene	**<0.00684**	mg/kg	0.00684	0.000581	1	11/16/20 16:40	11/25/20 01:02	95-50-1	
1,3-Dichlorobenzene	**<0.00684**	mg/kg	0.00684	0.000821	1	11/16/20 16:40	11/25/20 01:02	541-73-1	
1,4-Dichlorobenzene	**<0.00684**	mg/kg	0.00684	0.000957	1	11/16/20 16:40	11/25/20 01:02	106-46-7	
Dichlorodifluoromethane	**<0.00342**	mg/kg	0.00342	0.00220	1	11/16/20 16:40	11/25/20 01:02	75-71-8	
1,1-Dichloroethane	**<0.00342**	mg/kg	0.00342	0.000672	1	11/16/20 16:40	11/25/20 01:02	75-34-3	
1,2-Dichloroethane	**<0.00342**	mg/kg	0.00342	0.000888	1	11/16/20 16:40	11/25/20 01:02	107-06-2	
1,1-Dichloroethene	**<0.00342**	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	**<0.00342**	mg/kg	0.00342	0.00100	1	11/16/20 16:40	11/25/20 01:02	156-59-2	
trans-1,2-Dichloroethene	**<0.00684**	mg/kg	0.00684	0.00142	1	11/16/20 16:40	11/25/20 01:02	156-60-5	
1,2-Dichloropropane	**<0.00684**	mg/kg	0.00684	0.00194	1	11/16/20 16:40	11/25/20 01:02	78-87-5	
1,1-Dichloropropene	**<0.00342**	mg/kg	0.00342	0.00111	1	11/16/20 16:40	11/25/20 01:02	563-58-6	
1,3-Dichloropropane	**<0.00684**	mg/kg	0.00684	0.000685	1	11/16/20 16:40	11/25/20 01:02	142-28-9	
cis-1,3-Dichloropropene	**<0.00342**	mg/kg	0.00342	0.00104	1	11/16/20 16:40	11/25/20 01:02	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506486

Sample: 150-W **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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
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 07:40	11/30/20 07:55		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**4.46J**	mg/kg	7.56	2.53	1	11/16/20 15:40	11/25/20 19:37		J
Aliphatic (C09-C12)	**3.68J**	mg/kg	7.56	2.53	1	11/16/20 15:40	11/25/20 19:37		J
Aromatic (C09-C10),Unadjusted	**<7.56**	mg/kg	7.56	2.53	1	11/16/20 15:40	11/25/20 19:37	TPHC9C10A	
Total VPH	**8.14**	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	**0.145**	mg/kg	0.0744	0.0543	1	11/16/20 15:40	11/25/20 01:21	67-64-1	
Acrylonitrile	**<0.0186**	mg/kg	0.0186	0.00538	1	11/16/20 15:40	11/25/20 01:21	107-13-1	
Benzene	**0.436**	mg/kg	0.00149	0.000695	1	11/16/20 15:40	11/25/20 01:21	71-43-2	
Bromobenzene	**<0.0186**	mg/kg	0.0186	0.00134	1	11/16/20 15:40	11/25/20 01:21	108-86-1	
Bromodichloromethane	**<0.00372**	mg/kg	0.00372	0.00108	1	11/16/20 15:40	11/25/20 01:21	75-27-4	
Bromoform	**<0.0372**	mg/kg	0.0372	0.00174	1	11/16/20 15:40	11/25/20 01:21	75-25-2	
Bromomethane	**<0.0186**	mg/kg	0.0186	0.00293	1	11/16/20 15:40	11/25/20 01:21	74-83-9	
n-Butylbenzene	**<0.0186**	mg/kg	0.0186	0.00782	1	11/16/20 15:40	11/25/20 01:21	104-51-8	
sec-Butylbenzene	**<0.0186**	mg/kg	0.0186	0.00429	1	11/16/20 15:40	11/25/20 01:21	135-98-8	
tert-Butylbenzene	**<0.00744**	mg/kg	0.00744	0.00290	1	11/16/20 15:40	11/25/20 01:21	98-06-6	
Carbon tetrachloride	**<0.00744**	mg/kg	0.00744	0.00134	1	11/16/20 15:40	11/25/20 01:21	56-23-5	
Chlorobenzene	**<0.00372**	mg/kg	0.00372	0.000313	1	11/16/20 15:40	11/25/20 01:21	108-90-7	
Dibromochloromethane	**<0.00372**	mg/kg	0.00372	0.000911	1	11/16/20 15:40	11/25/20 01:21	124-48-1	
Chloroethane	**<0.00744**	mg/kg	0.00744	0.00253	1	11/16/20 15:40	11/25/20 01:21	75-00-3	
Chloroform	**<0.00372**	mg/kg	0.00372	0.00153	1	11/16/20 15:40	11/25/20 01:21	67-66-3	
Chloromethane	**<0.0186**	mg/kg	0.0186	0.00648	1	11/16/20 15:40	11/25/20 01:21	74-87-3	
2-Chlorotoluene	**<0.00372**	mg/kg	0.00372	0.00129	1	11/16/20 15:40	11/25/20 01:21	95-49-8	
4-Chlorotoluene	**<0.00744**	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	**<0.0372**	mg/kg	0.0372	0.00581	1	11/16/20 15:40	11/25/20 01:21	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00372**	mg/kg	0.00372	0.000965	1	11/16/20 15:40	11/25/20 01:21	106-93-4	
Dibromomethane	**<0.00744**	mg/kg	0.00744	0.00112	1	11/16/20 15:40	11/25/20 01:21	74-95-3	
1,2-Dichlorobenzene	**<0.00744**	mg/kg	0.00744	0.000633	1	11/16/20 15:40	11/25/20 01:21	95-50-1	
1,3-Dichlorobenzene	**<0.00744**	mg/kg	0.00744	0.000893	1	11/16/20 15:40	11/25/20 01:21	541-73-1	
1,4-Dichlorobenzene	**<0.00744**	mg/kg	0.00744	0.00104	1	11/16/20 15:40	11/25/20 01:21	106-46-7	
Dichlorodifluoromethane	**<0.00372**	mg/kg	0.00372	0.00240	1	11/16/20 15:40	11/25/20 01:21	75-71-8	
1,1-Dichloroethane	**<0.00372**	mg/kg	0.00372	0.000731	1	11/16/20 15:40	11/25/20 01:21	75-34-3	
1,2-Dichloroethane	**<0.00372**	mg/kg	0.00372	0.000966	1	11/16/20 15:40	11/25/20 01:21	107-06-2	
1,1-Dichloroethene	**<0.00372**	mg/kg	0.00372	0.000902	1	11/16/20 15:40	11/25/20 01:21	75-35-4	L0
cis-1,2-Dichloroethene	**<0.00372**	mg/kg	0.00372	0.00109	1	11/16/20 15:40	11/25/20 01:21	156-59-2	
trans-1,2-Dichloroethene	**<0.00744**	mg/kg	0.00744	0.00155	1	11/16/20 15:40	11/25/20 01:21	156-60-5	
1,2-Dichloropropane	**<0.00744**	mg/kg	0.00744	0.00211	1	11/16/20 15:40	11/25/20 01:21	78-87-5	
1,1-Dichloropropene	**<0.00372**	mg/kg	0.00372	0.00120	1	11/16/20 15:40	11/25/20 01:21	563-58-6	
1,3-Dichloropropane	**<0.00744**	mg/kg	0.00744	0.000746	1	11/16/20 15:40	11/25/20 01:21	142-28-9	
cis-1,3-Dichloropropene	**<0.00372**	mg/kg	0.00372	0.00113	1	11/16/20 15:40	11/25/20 01:21	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**4800**	mg/kg	64.5	21.4	10	11/16/20 16:15	11/26/20 02:16		
Aliphatic (C09-C12)	**4720**	mg/kg	64.5	21.4	10	11/16/20 16:15	11/26/20 02:16		
Aromatic (C09-C10),Unadjusted	**686**	mg/kg	258	85.9	40	11/16/20 16:15	12/01/20 12:04	TPHC9C10A	
Total VPH	**9520**	mg/kg	64.5	21.4	10	11/16/20 16:15	11/26/20 02:16	VPH	
Surrogates									
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	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet								
Acetone	**<2.54**	mg/kg	2.54	1.85	40	11/16/20 16:15	11/25/20 03:15	67-64-1	MH
Acrylonitrile	**<0.635**	mg/kg	0.635	0.183	40	11/16/20 16:15	11/25/20 03:15	107-13-1	MH
Benzene	**27.4**	mg/kg	0.0508	0.0237	40	11/16/20 16:15	11/25/20 03:15	71-43-2	
Bromobenzene	**<0.635**	mg/kg	0.635	0.0457	40	11/16/20 16:15	11/25/20 03:15	108-86-1	
Bromodichloromethane	**<0.127**	mg/kg	0.127	0.0368	40	11/16/20 16:15	11/25/20 03:15	75-27-4	R1
Bromoform	**<1.27**	mg/kg	1.27	0.0594	40	11/16/20 16:15	11/25/20 03:15	75-25-2	
Bromomethane	**<0.635**	mg/kg	0.635	0.100	40	11/16/20 16:15	11/25/20 03:15	74-83-9	
n-Butylbenzene	**14.2**	mg/kg	0.635	0.267	40	11/16/20 16:15	11/25/20 03:15	104-51-8	
sec-Butylbenzene	**4.78**	mg/kg	0.635	0.146	40	11/16/20 16:15	11/25/20 03:15	135-98-8	
tert-Butylbenzene	**<0.254**	mg/kg	0.254	0.0990	40	11/16/20 16:15	11/25/20 03:15	98-06-6	
Carbon tetrachloride	**<0.254**	mg/kg	0.254	0.0456	40	11/16/20 16:15	11/25/20 03:15	56-23-5	
Chlorobenzene	**<0.127**	mg/kg	0.127	0.0107	40	11/16/20 16:15	11/25/20 03:15	108-90-7	
Dibromochloromethane	**<0.127**	mg/kg	0.127	0.0311	40	11/16/20 16:15	11/25/20 03:15	124-48-1	
Chloroethane	**<0.254**	mg/kg	0.254	0.0863	40	11/16/20 16:15	11/25/20 03:15	75-00-3	
Chloroform	**<0.127**	mg/kg	0.127	0.0523	40	11/16/20 16:15	11/25/20 03:15	67-66-3	MH
Chloromethane	**<0.635**	mg/kg	0.635	0.221	40	11/16/20 16:15	11/25/20 03:15	74-87-3	
2-Chlorotoluene	**<0.127**	mg/kg	0.127	0.0439	40	11/16/20 16:15	11/25/20 03:15	95-49-8	
4-Chlorotoluene	**<0.254**	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	**<1.27**	mg/kg	1.27	0.198	40	11/16/20 16:15	11/25/20 03:15	96-12-8	
1,2-Dibromoethane (EDB)	**<0.127**	mg/kg	0.127	0.0329	40	11/16/20 16:15	11/25/20 03:15	106-93-4	
Dibromomethane	**<0.254**	mg/kg	0.254	0.0381	40	11/16/20 16:15	11/25/20 03:15	74-95-3	
1,2-Dichlorobenzene	**<0.254**	mg/kg	0.254	0.0216	40	11/16/20 16:15	11/25/20 03:15	95-50-1	
1,3-Dichlorobenzene	**<0.254**	mg/kg	0.254	0.0305	40	11/16/20 16:15	11/25/20 03:15	541-73-1	
1,4-Dichlorobenzene	**<0.254**	mg/kg	0.254	0.0355	40	11/16/20 16:15	11/25/20 03:15	106-46-7	
Dichlorodifluoromethane	**<0.127**	mg/kg	0.127	0.0817	40	11/16/20 16:15	11/25/20 03:15	75-71-8	MH
1,1-Dichloroethane	**<0.127**	mg/kg	0.127	0.0249	40	11/16/20 16:15	11/25/20 03:15	75-34-3	MH
1,2-Dichloroethane	**<0.127**	mg/kg	0.127	0.0330	40	11/16/20 16:15	11/25/20 03:15	107-06-2	
1,1-Dichloroethene	**<0.127**	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	**<0.127**	mg/kg	0.127	0.0373	40	11/16/20 16:15	11/25/20 03:15	156-59-2	
trans-1,2-Dichloroethene	**<0.254**	mg/kg	0.254	0.0528	40	11/16/20 16:15	11/25/20 03:15	156-60-5	
1,2-Dichloropropane	**<0.254**	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	**<0.127**	mg/kg	0.127	0.0411	40	11/16/20 16:15	11/25/20 03:15	563-58-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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	
Surrogates									
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	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet								
Acetone	**<1.14**	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	L0
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	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

LABORATORY CONTROL SAMPLE & LCSD: R3597451-1 R3597451-2

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	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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

LABORATORY CONTROL SAMPLE & LCSD: R3598732-1 R3598732-2

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	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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1582430
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
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	92506486022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1584209
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1581174
QC Batch Method: 5035A
Analysis Method: EPA 8260D
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	
1,1,2,2-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	
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

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
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	L0
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	92506486023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	mg/kg	ND	30.2	30.2	165	154	618	576	10.0-160	7.04	40	MH
Acrylonitrile	mg/kg	ND	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	6.81	6.20	128	116	10.0-156	9.31	38	
Benzene	mg/kg	24.2	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	6.91	3.24	130	60.8	10.0-143	72.3	37	R1
Bromoform	mg/kg	ND	6.03	6.03	6.87	7.22	129	136	10.0-146	5.10	36	
Bromomethane	mg/kg	ND	6.03	6.03	6.15	4.95	115	92.8	10.0-149	21.6	38	
n-Butylbenzene	mg/kg	12.6	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	10.8	9.54	124	99.6	10.0-159	12.6	39	
tert-Butylbenzene	mg/kg	ND	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	6.91	5.27	130	98.9	10.0-145	26.9	37	
Chlorobenzene	mg/kg	ND	6.03	6.03	6.35	6.16	119	116	10.0-152	3.05	39	
Dibromochloromethane	mg/kg	ND	6.03	6.03	5.88	6.09	110	114	10.0-146	3.56	37	
Chloroethane	mg/kg	ND	6.03	6.03	6.34	5.38	119	101	10.0-146	16.3	40	
Chloroform	mg/kg	ND	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	7.93	6.73	149	126	10.0-159	16.4	37	
2-Chlorotoluene	mg/kg	ND	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	7.20	6.27	135	118	10.0-155	13.8	39	
1,2-Dibromo-3-chloropropane	mg/kg	ND	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	6.11	6.43	115	121	10.0-148	5.01	34	
Dibromomethane	mg/kg	ND	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	6.81	6.10	128	115	10.0-155	10.9	37	
1,3-Dichlorobenzene	mg/kg	ND	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	6.55	5.92	123	111	10.0-151	10.1	38	
Dichlorodifluoromethane	mg/kg	ND	6.03	6.03	8.76	6.34	164	119	10.0-160	32.1	35	MH

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3597323-3 R3597323-4

Parameter	Units	92506486023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1582486
QC Batch Method: 5035A
Analysis Method: EPA 8260D
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1581972
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1582979
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
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

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	

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	

SAMPLE DUPLICATE: R3598612-3

Parameter	Units	92506486012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	74.8	76.0	1.59	10	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506486

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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-W**	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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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-W**	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-W**	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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB USE ONLY- WO# : 92506486

92506486

Company: Apex Companies LLC

Address:

Billing Information:

Report To: Andrew Street

Email To: Andrew Street

Copy To: Matt Gorman

Site Collection Info/Address:

Customer Project Name/Number: 2020-LI-2448

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

Phone:

Email: AStreet@apexcos.com

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [✓] No

Collected By (print): Rick McBride

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature): [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 (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)

Container Preservative Type: 6 | 6

** 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 Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	VOC's 8260	MADEP VPH	Lab Sample # / Comments
											92506486
O-W	SL	Grab	11/15/20	1055				5	✓	✓	001
O-B	SL	↓	↓	1110				5	✓	✓	002
O-E	SL	↓	↓	1125				5	✓	✓	003
25-W	SL	↓	↓	1440				5	✓	✓	004
25-B	SL	↓	↓	1455				5	✓	✓	005
25-E	SL	↓	↓	1505				5	✓	✓	006
50-W	SL	↓	↓	1520				5	✓	✓	007
50-B	SL	↓	↓	1530				5	✓	✓	008
50-E	SL	↓	↓	1650				5	✓	✓	009

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA (NA circled)
Custody Signatures Present	Y N NA (NA circled)
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:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Other

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

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

Lab Tracking #: 2560831

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:

Temp Blank Received: Y N (NA)

Therm ID#: 92T061

Cooler 1 Temp Upon Receipt: 1.7 / 1.6 / 2.9 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 1.7, 1.6, 2.9 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
[signature] / Apex	11/17/20/1240	[signature]	11-17-20 1240	Table #:
[signature]	11-17-20 1329	Erick Bonniface / PACE 4UL	11/17/20 1329	Acctnum: / Template: / Prelogin:
				PM: / PB:

Trip Blank Received: Y N (NA)

HCL MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: ____ of: ____

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

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

ALL SHADED AREAS are for LAB USE ONLY

Company: Apex Companies LLC

Billing Information:

Address:

Report To: Andrew Street

Email To: Andrew Street

Copy To: Matt Garmon

Site Collection Info/Address:

Customer Project Name/Number: 2020-LI-2448

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

Phone:

Email: AStreet@apexcos.com

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Rick McBride

Purchase Order #:

Quote #:

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 (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)

Container Preservative Type **: 6 6

** 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 Project Manager:

Analyses: VOC 8260; MADEP VPH

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Lab Sample # / Comments
75-W	SL	Grab	11/6/20	1310				3	92506486-011
75-B				1319				3	012
75-E				1323				3	013
100-W				1412				3	014
100-B				1351				3	015
100-E				1330				3	016
125-W				1430				3	017
125-B				1421				3	018
125-E				1340				3	019

AMB 11-18-2020

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: _____
- Sulfide Present Y N NA
- Lead Acetate Strips: _____

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: Other

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

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

Lab Tracking #: 2560830

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: T2T061 1,6,2,9

Cooler 1 Temp Upon Receipt: 1.1 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 1.1 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	11/17/20 12:40		11/17/20 1240
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	11/17/20 129	Pace Courier HVC	11/17/20 13:29
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 / NO

Page: _____ of: _____

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

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

ALL SHADED AREAS are for LAB USE ONLY

Company: Apex Companies LLC
Address:
Billing Information:

Report To: Andrew Street
Email To: AStreet@apexcos.com
Copy To: Matt Cornman
Site Collection Info/Address:
Customer Project Name/Number: 2020-11-2448
State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email: AStreet@apexcos.com
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Rick McBride
Purchase Order #:
Quote #:
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 (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)

Container Preservative Type **: 6 | 6

** 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 Project Manager:

Analyses: VOC 8260 | MADEP UPH

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOC 8260	MADEP UPH	Lab Sample # / Comments
150-E	SL	Grab	11/16/20	1640				3	✓	✓	92506486 020
175-E	SL		11/16/20	1650				3	✓	✓	021
150-W	SL		11/16/20	1540				3	✓	✓	022
150-B	SL		11/16/20	1600				3	✓	✓	023
175-W	SL		11/16/20	1615				3	✓	✓	024
175-B	SL		11/16/20	1620				3	✓	✓	025

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: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

AMB 11-18

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None
Packing Material Used: other
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2560813
Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 92106 1,6,2,9
Cooler 1 Temp Upon Receipt: 1.1 oC
Cooler 1 Therm Corr. Factor: 0 oC 9
Cooler 1 Corrected Temp: 1.1, 1.6, 3 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Apex	11/17/20 1240		11-17-20 1240
	11-17-20 1329	Eurofins Pace HUC	11/17/20 1329

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 15, 2020

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

RE: Project: L1-2020-2448
Pace Project No.: 92510412

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 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 M. Baioni

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
Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: L1-2020-2448
Pace Project No.: 92510412

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: L1-2020-2448
Pace Project No.: 92510412

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92510412001	**225-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ADM, JHH	68	PAN
		SM 2540G	KDW	1	PAN
92510412002	**250-B**	MADEP VPH	BMB, DWR	6	PAN
		EPA 8260D	ADM, JHH	68	PAN
92510412003	**275-B**	MADEP VPH	BMB, DWR	6	PAN
		EPA 8260D	ADM, JHH	68	PAN
		SM 2540G	KBC	1	PAN
92510412004	**300-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ADM, JHH	68	PAN
		SM 2540G	KBC	1	PAN
92510412005	**325-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ADM, JHH	68	PAN

PAN = Pace National - Mt. Juliet

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 225-B **Lab ID: 92510412001** Collected: 12/08/20 11:43 Received: 12/08/20 14:21 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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**59.3**	mg/kg	13.0	1.82	12/08/20 11:43	12/13/20 12:31		
Aliphatic (C09-C12)	**74.2**	mg/kg	13.0	1.82	12/08/20 11:43	12/13/20 12:31		
Aromatic (C09-C10),Unadjusted	**49.6**	mg/kg	13.0	1.82	12/08/20 11:43	12/13/20 12:31	TPHC9C10A	
Total VPH	**183**	mg/kg	13.0	1.82	12/08/20 11:43	12/13/20 12:31	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.0	%	70.0-130	1.82	12/08/20 11:43	12/13/20 12:31	615-59-8FID	
2,5-Dibromotoluene (PID)	90.6	%	70.0-130	1.82	12/08/20 11:43	12/13/20 12:31	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	0.151	1.82	12/08/20 11:43	12/13/20 09:42	67-64-1	
Acrylonitrile	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	107-13-1	
Benzene	**0.142**	mg/kg	0.00302	1.82	12/08/20 11:43	12/13/20 09:42	71-43-2	
Bromobenzene	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-27-4	
Bromoform	ND	mg/kg	0.0756	1.82	12/08/20 11:43	12/13/20 09:42	75-25-2	
Bromomethane	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	74-83-9	
n-Butylbenzene	**1.49**	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	104-51-8	
sec-Butylbenzene	**0.450**	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	56-23-5	
Chlorobenzene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	124-48-1	
Chloroethane	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	75-00-3	
Chloroform	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	67-66-3	
Chloromethane	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0756	1.82	12/08/20 11:43	12/13/20 09:42	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	106-93-4	
Dibromomethane	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	107-06-2	C4
1,1-Dichloroethene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 225-B **Lab ID: 92510412001** Collected: 12/08/20 11:43 Received: 12/08/20 14:21 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
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
2,2-Dichloropropane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	594-20-7	
Diisopropyl ether	**0.0457**	mg/kg	0.00302	1.82	12/08/20 11:43	12/13/20 09:42	108-20-3	
Ethylbenzene	**1.22**	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0756	1.82	12/08/20 11:43	12/13/20 09:42	87-68-3	
Isopropylbenzene (Cumene)	**0.422**	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	98-82-8	
p-Isopropyltoluene	**0.349**	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.302	1.82	12/08/20 11:43	12/13/20 09:42	78-93-3	
Methylene Chloride	ND	mg/kg	0.0756	1.82	12/08/20 11:43	12/13/20 09:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0756	1.82	12/08/20 11:43	12/13/20 09:42	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00302	1.82	12/08/20 11:43	12/13/20 09:42	1634-04-4	
Naphthalene	**2.04**	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	91-20-3	C5,L0
n-Propylbenzene	**1.96**	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	103-65-1	
Styrene	**0.365**	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	76-13-1	
Tetrachloroethene	**0.0621**	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	127-18-4	
Toluene	**1.47**	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	71-55-6	
1,1,2-Trichloroethane	**0.262**	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	79-00-5	
Trichloroethene	ND	mg/kg	0.00302	1.82	12/08/20 11:43	12/13/20 09:42	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	96-18-4	
1,2,4-Trimethylbenzene	**5.40**	mg/kg	0.121	14.6	12/08/20 11:43	12/15/20 12:40	95-63-6	
1,2,3-Trimethylbenzene	**1.54**	mg/kg	0.121	14.6	12/08/20 11:43	12/15/20 12:40	526-73-8	
1,3,5-Trimethylbenzene	**5.07**	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	108-67-8	
Vinyl chloride	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-01-4	
Xylene (Total)	**11.7**	mg/kg	0.0196	1.82	12/08/20 11:43	12/13/20 09:42	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	75.0-131	1.82	12/08/20 11:43	12/13/20 09:42	2037-26-5	
Toluene-d8 (S)	100	%	75.0-131	14.6	12/08/20 11:43	12/15/20 12:40	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67.0-138	1.82	12/08/20 11:43	12/13/20 09:42	460-00-4	
4-Bromofluorobenzene (S)	105	%	67.0-138	14.6	12/08/20 11:43	12/15/20 12:40	460-00-4	
1,2-Dichloroethane-d4 (S)	97.4	%	70.0-130	1.82	12/08/20 11:43	12/13/20 09:42	17060-07-0	
1,2-Dichloroethane-d4 (S)	117	%	70.0-130	14.6	12/08/20 11:43	12/15/20 12:40	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**70.1**	%		1	12/14/20 07:22	12/14/20 07:38		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 250-B **Lab ID: 92510412002** Collected: 12/08/20 11:37 Received: 12/08/20 14:21 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**4770**	mg/kg	61.5	12.3	12/08/20 11:37	12/13/20 14:44		
Aliphatic (C09-C12)	**2770**	mg/kg	61.5	12.3	12/08/20 11:37	12/13/20 14:44		
Aromatic (C09-C10),Unadjusted	**1690**	mg/kg	248	49.6	12/08/20 11:37	12/14/20 15:31	TPHC9C10A	
Total VPH	**9230**	mg/kg	61.5	12.3	12/08/20 11:37	12/13/20 14:44	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.2	%	70.0-130	12.3	12/08/20 11:37	12/13/20 14:44	615-59-8FID	
2,5-Dibromotoluene (FID)	94.4	%	70.0-130	49.6	12/08/20 11:37	12/14/20 15:31	615-59-8FID	
2,5-Dibromotoluene (PID)	94.6	%	70.0-130	12.3	12/08/20 11:37	12/13/20 14:44	615-59-8PID	
2,5-Dibromotoluene (PID)	93.6	%	70.0-130	49.6	12/08/20 11:37	12/14/20 15:31	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.46	49.2	12/08/20 11:37	12/13/20 12:33	67-64-1	
Acrylonitrile	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	107-13-1	
Benzene	**53.2**	mg/kg	0.0492	49.2	12/08/20 11:37	12/13/20 12:33	71-43-2	
Bromobenzene	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	108-86-1	
Bromodichloromethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-27-4	
Bromoform	ND	mg/kg	1.23	49.2	12/08/20 11:37	12/13/20 12:33	75-25-2	
Bromomethane	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	74-83-9	
n-Butylbenzene	**14.2**	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	104-51-8	
sec-Butylbenzene	**5.65**	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	56-23-5	
Chlorobenzene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	108-90-7	
Dibromochloromethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	124-48-1	
Chloroethane	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	75-00-3	
Chloroform	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	67-66-3	
Chloromethane	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.23	49.2	12/08/20 11:37	12/13/20 12:33	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	106-93-4	
Dibromomethane	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	107-06-2	C4
1,1-Dichloroethene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	142-28-9	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 250-B **Lab ID: 92510412002** Collected: 12/08/20 11:37 Received: 12/08/20 14:21 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
cis-1,3-Dichloropropene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0492	49.2	12/08/20 11:37	12/13/20 12:33	108-20-3	
Ethylbenzene	**202**	mg/kg	2.46	984	12/08/20 11:37	12/15/20 12:58	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	1.23	49.2	12/08/20 11:37	12/13/20 12:33	87-68-3	
Isopropylbenzene (Cumene)	**18.3**	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	98-82-8	
p-Isopropyltoluene	**3.38**	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	99-87-6	
2-Butanone (MEK)	ND	mg/kg	4.92	49.2	12/08/20 11:37	12/13/20 12:33	78-93-3	
Methylene Chloride	ND	mg/kg	1.23	49.2	12/08/20 11:37	12/13/20 12:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.23	49.2	12/08/20 11:37	12/13/20 12:33	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0492	49.2	12/08/20 11:37	12/13/20 12:33	1634-04-4	
Naphthalene	**54.5**	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	91-20-3	C5,L0
n-Propylbenzene	**61.3**	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	103-65-1	
Styrene	**10.6**	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	76-13-1	
Tetrachloroethene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	127-18-4	
Toluene	**600**	mg/kg	4.92	984	12/08/20 11:37	12/15/20 12:58	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	79-00-5	
Trichloroethene	ND	mg/kg	0.0492	49.2	12/08/20 11:37	12/13/20 12:33	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	96-18-4	
1,2,4-Trimethylbenzene	**287**	mg/kg	4.92	984	12/08/20 11:37	12/15/20 12:58	95-63-6	
1,2,3-Trimethylbenzene	**81.4**	mg/kg	4.92	984	12/08/20 11:37	12/15/20 12:58	526-73-8	
1,3,5-Trimethylbenzene	**92.4**	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	108-67-8	
Vinyl chloride	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-01-4	
Xylene (Total)	**1130**	mg/kg	6.40	984	12/08/20 11:37	12/15/20 12:58	1330-20-7	
Surrogates								
Toluene-d8 (S)	115	%	75.0-131	49.2	12/08/20 11:37	12/13/20 12:33	2037-26-5	
Toluene-d8 (S)	101	%	75.0-131	984	12/08/20 11:37	12/15/20 12:58	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67.0-138	49.2	12/08/20 11:37	12/13/20 12:33	460-00-4	
4-Bromofluorobenzene (S)	102	%	67.0-138	984	12/08/20 11:37	12/15/20 12:58	460-00-4	
1,2-Dichloroethane-d4 (S)	98.7	%	70.0-130	49.2	12/08/20 11:37	12/13/20 12:33	17060-07-0	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130	984	12/08/20 11:37	12/15/20 12:58	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 275-B **Lab ID: 92510412003** Collected: 12/08/20 11:34 Received: 12/08/20 14:21 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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**6690**	mg/kg	102	14.4	12/08/20 11:34	12/13/20 15:17		
Aliphatic (C09-C12)	**3390**	mg/kg	102	14.4	12/08/20 11:34	12/13/20 15:17		
Aromatic (C09-C10),Unadjusted	**2220**	mg/kg	387	54	12/08/20 11:34	12/14/20 16:04	TPHC9C10A	
Total VPH	**12300**	mg/kg	102	14.4	12/08/20 11:34	12/13/20 15:17	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.3	%	70.0-130	14.4	12/08/20 11:34	12/13/20 15:17	615-59-8FID	
2,5-Dibromotoluene (FID)	97.9	%	70.0-130	54	12/08/20 11:34	12/14/20 16:04	615-59-8FID	
2,5-Dibromotoluene (PID)	96.3	%	70.0-130	14.4	12/08/20 11:34	12/13/20 15:17	615-59-8PID	
2,5-Dibromotoluene (PID)	97.1	%	70.0-130	54	12/08/20 11:34	12/14/20 16:04	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	4.10	57.6	12/08/20 11:34	12/13/20 12:52	67-64-1	MH
Acrylonitrile	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	107-13-1	MH
Benzene	**171**	mg/kg	0.0819	57.6	12/08/20 11:34	12/13/20 12:52	71-43-2	P6
Bromobenzene	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	108-86-1	
Bromodichloromethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-27-4	R1
Bromoform	ND	mg/kg	2.05	57.6	12/08/20 11:34	12/13/20 12:52	75-25-2	
Bromomethane	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	74-83-9	
n-Butylbenzene	**21.8**	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	104-51-8	MH
sec-Butylbenzene	**8.14**	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	56-23-5	
Chlorobenzene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	108-90-7	
Dibromochloromethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	124-48-1	
Chloroethane	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	75-00-3	
Chloroform	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	67-66-3	MH
Chloromethane	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	2.05	57.6	12/08/20 11:34	12/13/20 12:52	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	106-93-4	
Dibromomethane	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	107-06-2	C4
1,1-Dichloroethene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	142-28-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 275-B **Lab ID: 92510412003** Collected: 12/08/20 11:34 Received: 12/08/20 14:21 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
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
cis-1,3-Dichloropropene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0819	57.6	12/08/20 11:34	12/13/20 12:52	108-20-3	
Ethylbenzene	**260**	mg/kg	4.10	1150	12/08/20 11:34	12/15/20 13:18	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	2.05	57.6	12/08/20 11:34	12/13/20 12:52	87-68-3	
Isopropylbenzene (Cumene)	**27.5**	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	98-82-8	MH
p-Isopropyltoluene	**4.97**	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	99-87-6	
2-Butanone (MEK)	ND	mg/kg	8.19	57.6	12/08/20 11:34	12/13/20 12:52	78-93-3	MH,R1
Methylene Chloride	ND	mg/kg	2.05	57.6	12/08/20 11:34	12/13/20 12:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.05	57.6	12/08/20 11:34	12/13/20 12:52	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0819	57.6	12/08/20 11:34	12/13/20 12:52	1634-04-4	
Naphthalene	**121**	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	91-20-3	C5,L0, P6
n-Propylbenzene	**122**	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	103-65-1	
Styrene	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	76-13-1	
Tetrachloroethene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	127-18-4	
Toluene	**1110**	mg/kg	8.18	1150	12/08/20 11:34	12/15/20 13:18	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	87-61-6	MH
1,2,4-Trichlorobenzene	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	120-82-1	MH
1,1,1-Trichloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	79-00-5	MH
Trichloroethene	ND	mg/kg	0.0819	57.6	12/08/20 11:34	12/13/20 12:52	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	96-18-4	
1,2,4-Trimethylbenzene	**511**	mg/kg	8.18	1150	12/08/20 11:34	12/15/20 13:18	95-63-6	
1,2,3-Trimethylbenzene	**135**	mg/kg	8.18	1150	12/08/20 11:34	12/15/20 13:18	526-73-8	
1,3,5-Trimethylbenzene	**171**	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	108-67-8	P6
Vinyl chloride	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-01-4	
Xylene (Total)	**1440**	mg/kg	10.6	1150	12/08/20 11:34	12/15/20 13:18	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	75.0-131	57.6	12/08/20 11:34	12/13/20 12:52	2037-26-5	
Toluene-d8 (S)	101	%	75.0-131	1150	12/08/20 11:34	12/15/20 13:18	2037-26-5	
4-Bromofluorobenzene (S)	96.5	%	67.0-138	57.6	12/08/20 11:34	12/13/20 12:52	460-00-4	
4-Bromofluorobenzene (S)	101	%	67.0-138	1150	12/08/20 11:34	12/15/20 13:18	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130	57.6	12/08/20 11:34	12/13/20 12:52	17060-07-0	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130	1150	12/08/20 11:34	12/15/20 13:18	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**80.0**	%		1	12/14/20 11:28	12/14/20 11:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 300-B **Lab ID: 92510412004** Collected: 12/08/20 11:21 Received: 12/08/20 14:21 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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**12.8**	mg/kg	10.6	1.49	12/08/20 11:21	12/13/20 13:04		
Aliphatic (C09-C12)	ND	mg/kg	10.6	1.49	12/08/20 11:21	12/13/20 13:04		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	10.6	1.49	12/08/20 11:21	12/13/20 13:04	TPHC9C10A	
Total VPH	**25.2**	mg/kg	10.6	1.49	12/08/20 11:21	12/13/20 13:04	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.0	%	70.0-130	1.49	12/08/20 11:21	12/13/20 13:04	615-59-8FID	
2,5-Dibromotoluene (PID)	93.2	%	70.0-130	1.49	12/08/20 11:21	12/13/20 13:04	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	0.106	1.49	12/08/20 11:21	12/13/20 10:01	67-64-1	
Acrylonitrile	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	107-13-1	
Benzene	**0.967**	mg/kg	0.00211	1.49	12/08/20 11:21	12/13/20 10:01	71-43-2	
Bromobenzene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-27-4	
Bromoform	ND	mg/kg	0.0529	1.49	12/08/20 11:21	12/13/20 10:01	75-25-2	
Bromomethane	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	56-23-5	
Chlorobenzene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	124-48-1	
Chloroethane	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	75-00-3	
Chloroform	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	67-66-3	
Chloromethane	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0529	1.49	12/08/20 11:21	12/13/20 10:01	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	106-93-4	
Dibromomethane	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	107-06-2	C4
1,1-Dichloroethene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 300-B **Lab ID: 92510412004** Collected: 12/08/20 11:21 Received: 12/08/20 14:21 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
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
2,2-Dichloropropane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	594-20-7	
Diisopropyl ether	**0.00877**	mg/kg	0.00211	1.49	12/08/20 11:21	12/13/20 10:01	108-20-3	
Ethylbenzene	**0.137**	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0529	1.49	12/08/20 11:21	12/13/20 10:01	87-68-3	
Isopropylbenzene (Cumene)	**0.00586**	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.211	1.49	12/08/20 11:21	12/13/20 10:01	78-93-3	
Methylene Chloride	ND	mg/kg	0.0529	1.49	12/08/20 11:21	12/13/20 10:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0529	1.49	12/08/20 11:21	12/13/20 10:01	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00211	1.49	12/08/20 11:21	12/13/20 10:01	1634-04-4	
Naphthalene	**0.0275**	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	91-20-3	C5,L0
n-Propylbenzene	**0.0148**	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	103-65-1	
Styrene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	127-18-4	
Toluene	**3.02**	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	79-00-5	
Trichloroethene	ND	mg/kg	0.00211	1.49	12/08/20 11:21	12/13/20 10:01	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	96-18-4	
1,2,4-Trimethylbenzene	**0.150**	mg/kg	0.0106	1.49	12/08/20 11:21	12/15/20 13:36	95-63-6	
1,2,3-Trimethylbenzene	**0.0309**	mg/kg	0.0106	1.49	12/08/20 11:21	12/15/20 13:36	526-73-8	
1,3,5-Trimethylbenzene	**0.0850**	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	108-67-8	
Vinyl chloride	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-01-4	
Xylene (Total)	**1.22**	mg/kg	0.0137	1.49	12/08/20 11:21	12/13/20 10:01	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	75.0-131	1.49	12/08/20 11:21	12/13/20 10:01	2037-26-5	
Toluene-d8 (S)	105	%	75.0-131	1.49	12/08/20 11:21	12/15/20 13:36	2037-26-5	
4-Bromofluorobenzene (S)	96.9	%	67.0-138	1.49	12/08/20 11:21	12/13/20 10:01	460-00-4	
4-Bromofluorobenzene (S)	99.0	%	67.0-138	1.49	12/08/20 11:21	12/15/20 13:36	460-00-4	
1,2-Dichloroethane-d4 (S)	82.9	%	70.0-130	1.49	12/08/20 11:21	12/13/20 10:01	17060-07-0	
1,2-Dichloroethane-d4 (S)	99.7	%	70.0-130	1.49	12/08/20 11:21	12/15/20 13:36	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**79.9**	%		1	12/14/20 11:28	12/14/20 11:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 325-B **Lab ID: 92510412005** Collected: 12/08/20 11:25 Received: 12/08/20 14:21 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**9.14**	mg/kg	5.35	1.07	12/08/20 11:25	12/13/20 13:37		
Aliphatic (C09-C12)	ND	mg/kg	5.35	1.07	12/08/20 11:25	12/13/20 13:37		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	5.35	1.07	12/08/20 11:25	12/13/20 13:37	TPHC9C10A	
Total VPH	**11.6**	mg/kg	5.35	1.07	12/08/20 11:25	12/13/20 13:37	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.5	%	70.0-130	1.07	12/08/20 11:25	12/13/20 13:37	615-59-8FID	
2,5-Dibromotoluene (PID)	92.3	%	70.0-130	1.07	12/08/20 11:25	12/13/20 13:37	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	0.0535	1.07	12/08/20 11:25	12/13/20 10:19	67-64-1	
Acrylonitrile	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	107-13-1	
Benzene	**0.166**	mg/kg	0.00107	1.07	12/08/20 11:25	12/13/20 10:19	71-43-2	
Bromobenzene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-27-4	
Bromoform	ND	mg/kg	0.0268	1.07	12/08/20 11:25	12/13/20 10:19	75-25-2	
Bromomethane	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	56-23-5	
Chlorobenzene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	124-48-1	
Chloroethane	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	75-00-3	
Chloroform	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	67-66-3	
Chloromethane	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0268	1.07	12/08/20 11:25	12/13/20 10:19	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	106-93-4	
Dibromomethane	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	107-06-2	C4
1,1-Dichloroethene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 325-B **Lab ID: 92510412005** Collected: 12/08/20 11:25 Received: 12/08/20 14:21 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
2,2-Dichloropropane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00107	1.07	12/08/20 11:25	12/13/20 10:19	108-20-3	
Ethylbenzene	**0.0335**	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0268	1.07	12/08/20 11:25	12/13/20 10:19	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.107	1.07	12/08/20 11:25	12/13/20 10:19	78-93-3	
Methylene Chloride	ND	mg/kg	0.0268	1.07	12/08/20 11:25	12/13/20 10:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0268	1.07	12/08/20 11:25	12/13/20 10:19	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00107	1.07	12/08/20 11:25	12/13/20 10:19	1634-04-4	
Naphthalene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	91-20-3	L0
n-Propylbenzene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	103-65-1	
Styrene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	127-18-4	
Toluene	**0.521**	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	79-00-5	
Trichloroethene	ND	mg/kg	0.00107	1.07	12/08/20 11:25	12/13/20 10:19	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	96-18-4	
1,2,4-Trimethylbenzene	**0.0222**	mg/kg	0.00535	1.07	12/08/20 11:25	12/15/20 13:55	95-63-6	
1,2,3-Trimethylbenzene	**0.00720**	mg/kg	0.00535	1.07	12/08/20 11:25	12/15/20 13:55	526-73-8	
1,3,5-Trimethylbenzene	**0.0164**	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	108-67-8	
Vinyl chloride	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-01-4	
Xylene (Total)	**0.189**	mg/kg	0.00696	1.07	12/08/20 11:25	12/13/20 10:19	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	75.0-131	1.07	12/08/20 11:25	12/13/20 10:19	2037-26-5	
Toluene-d8 (S)	108	%	75.0-131	1.07	12/08/20 11:25	12/15/20 13:55	2037-26-5	
4-Bromofluorobenzene (S)	98.9	%	67.0-138	1.07	12/08/20 11:25	12/13/20 10:19	460-00-4	
4-Bromofluorobenzene (S)	98.0	%	67.0-138	1.07	12/08/20 11:25	12/15/20 13:55	460-00-4	
1,2-Dichloroethane-d4 (S)	81.2	%	70.0-130	1.07	12/08/20 11:25	12/13/20 10:19	17060-07-0	
1,2-Dichloroethane-d4 (S)	99.1	%	70.0-130	1.07	12/08/20 11:25	12/15/20 13:55	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1590860 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

METHOD BLANK: R3602971-3 Matrix: Solid
Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	12/13/20 04:11	
Aliphatic (C09-C12)	mg/kg	ND	5.00	12/13/20 04:11	
Aromatic (C09-C10),Unadjusted	mg/kg	ND	5.00	12/13/20 04:11	
Total VPH	mg/kg	ND	5.00	12/13/20 04:11	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	12/13/20 04:11	
2,5-Dibromotoluene (PID)	%	86.3	70.0-130	12/13/20 04:11	

LABORATORY CONTROL SAMPLE & LCSD: R3602971-1 R3602971-2

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	63.5	59.3	106	98.8	70.0-130	6.84	25	
Aliphatic (C09-C12)	mg/kg	70.0	72.6	68.8	104	98.3	70.0-130	5.37	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	10.5	10.1	105	101	70.0-130	3.88	25	
Total VPH	mg/kg	140	147	138	105	98.6	70.0-130	6.32	25	
2,5-Dibromotoluene (FID)	%				97.3	101	70.0-130			
2,5-Dibromotoluene (PID)	%				99.2	101	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3602971-4 R3602971-5

Parameter	Units	L1293914-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aliphatic (C05-C08)	mg/kg	ND	190	190	219	206	115	108	70.0-130	6.12	
Aliphatic (C09-C12)	mg/kg	40.9	221	221	324	336	128	134	70.0-130	3.64	MH
Aromatic (C09-C10),Unadjusted	mg/kg	50.3	31.6	31.6	87.9	87.2	119	117	70.0-130	0.800	
Total VPH	mg/kg	91.2	442	442	631	629	122	122	70.0-130	0.317	
2,5-Dibromotoluene (FID)	%						108	98.0	70.0-130		
2,5-Dibromotoluene (PID)	%						86.3	79.1	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1591416
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510412002, 92510412003

METHOD BLANK: R3603355-3 Matrix: Solid
Associated Lab Samples: 92510412002, 92510412003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	mg/kg	ND	5.00	12/14/20 01:29	
2,5-Dibromotoluene (FID)	%	87.4	70.0-130	12/14/20 01:29	
2,5-Dibromotoluene (PID)	%	85.7	70.0-130	12/14/20 01:29	

LABORATORY CONTROL SAMPLE & LCSD: R3603355-1 R3603355-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	10.3	10.2	103	102	70.0-130	0.976	25	
2,5-Dibromotoluene (FID)	%				100	93.2	70.0-130			
2,5-Dibromotoluene (PID)	%				100	91.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1590587 | Analysis Method: EPA 8260D
QC Batch Method: 5035A | Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

METHOD BLANK: R3603447-2 Matrix: Solid

Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	0.0500	12/13/20 06:31	
Acrylonitrile	mg/kg	ND	0.0125	12/13/20 06:31	
Benzene	mg/kg	ND	0.00100	12/13/20 06:31	
Bromobenzene	mg/kg	ND	0.0125	12/13/20 06:31	
Bromodichloromethane	mg/kg	ND	0.00250	12/13/20 06:31	
Bromoform	mg/kg	ND	0.0250	12/13/20 06:31	
Bromomethane	mg/kg	ND	0.0125	12/13/20 06:31	
n-Butylbenzene	mg/kg	ND	0.0125	12/13/20 06:31	
sec-Butylbenzene	mg/kg	ND	0.0125	12/13/20 06:31	
tert-Butylbenzene	mg/kg	ND	0.00500	12/13/20 06:31	
Carbon tetrachloride	mg/kg	ND	0.00500	12/13/20 06:31	
Chlorobenzene	mg/kg	ND	0.00250	12/13/20 06:31	
Dibromochloromethane	mg/kg	ND	0.00250	12/13/20 06:31	
Chloroethane	mg/kg	ND	0.00500	12/13/20 06:31	
Chloroform	mg/kg	ND	0.00250	12/13/20 06:31	
Chloromethane	mg/kg	ND	0.0125	12/13/20 06:31	
2-Chlorotoluene	mg/kg	ND	0.00250	12/13/20 06:31	
4-Chlorotoluene	mg/kg	ND	0.00500	12/13/20 06:31	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0250	12/13/20 06:31	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.00250	12/13/20 06:31	
Dibromomethane	mg/kg	ND	0.00500	12/13/20 06:31	
1,2-Dichlorobenzene	mg/kg	ND	0.00500	12/13/20 06:31	
1,3-Dichlorobenzene	mg/kg	ND	0.00500	12/13/20 06:31	
1,4-Dichlorobenzene	mg/kg	ND	0.00500	12/13/20 06:31	
Dichlorodifluoromethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,1-Dichloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,2-Dichloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,1-Dichloroethene	mg/kg	ND	0.00250	12/13/20 06:31	
cis-1,2-Dichloroethene	mg/kg	ND	0.00250	12/13/20 06:31	
trans-1,2-Dichloroethene	mg/kg	ND	0.00500	12/13/20 06:31	
1,2-Dichloropropane	mg/kg	ND	0.00500	12/13/20 06:31	
1,1-Dichloropropene	mg/kg	ND	0.00250	12/13/20 06:31	
1,3-Dichloropropane	mg/kg	ND	0.00500	12/13/20 06:31	
cis-1,3-Dichloropropene	mg/kg	ND	0.00250	12/13/20 06:31	
trans-1,3-Dichloropropene	mg/kg	ND	0.00500	12/13/20 06:31	
2,2-Dichloropropane	mg/kg	ND	0.00250	12/13/20 06:31	
Diisopropyl ether	mg/kg	ND	0.00100	12/13/20 06:31	
Ethylbenzene	mg/kg	ND	0.00250	12/13/20 06:31	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0250	12/13/20 06:31	
Isopropylbenzene (Cumene)	mg/kg	ND	0.00250	12/13/20 06:31	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

METHOD BLANK: R3603447-2 Matrix: Solid
Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	mg/kg	ND	0.00500	12/13/20 06:31	
2-Butanone (MEK)	mg/kg	ND	0.100	12/13/20 06:31	
Methylene Chloride	mg/kg	ND	0.0250	12/13/20 06:31	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.0250	12/13/20 06:31	
Methyl-tert-butyl ether	mg/kg	ND	0.00100	12/13/20 06:31	
Naphthalene	mg/kg	ND	0.0125	12/13/20 06:31	
n-Propylbenzene	mg/kg	ND	0.00500	12/13/20 06:31	
Styrene	mg/kg	ND	0.0125	12/13/20 06:31	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
Tetrachloroethene	mg/kg	ND	0.00250	12/13/20 06:31	
Toluene	mg/kg	ND	0.00500	12/13/20 06:31	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0125	12/13/20 06:31	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0125	12/13/20 06:31	
1,1,1-Trichloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,1,2-Trichloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
Trichloroethene	mg/kg	ND	0.00100	12/13/20 06:31	
Trichlorofluoromethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,2,3-Trichloropropane	mg/kg	ND	0.0125	12/13/20 06:31	
1,3,5-Trimethylbenzene	mg/kg	ND	0.00500	12/13/20 06:31	
Vinyl chloride	mg/kg	ND	0.00250	12/13/20 06:31	
Xylene (Total)	mg/kg	ND	0.00650	12/13/20 06:31	
Toluene-d8 (S)	%	109	75.0-131	12/13/20 06:31	
4-Bromofluorobenzene (S)	%	96.7	67.0-138	12/13/20 06:31	
1,2-Dichloroethane-d4 (S)	%	87.8	70.0-130	12/13/20 06:31	

LABORATORY CONTROL SAMPLE: R3603447-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	mg/kg	0.625	0.625	100	10.0-160	
Acrylonitrile	mg/kg	0.625	0.508	81.3	45.0-153	
Benzene	mg/kg	0.125	0.115	92.0	70.0-123	
Bromobenzene	mg/kg	0.125	0.116	92.8	73.0-121	
Bromodichloromethane	mg/kg	0.125	0.113	90.4	73.0-121	
Bromoform	mg/kg	0.125	0.129	103	64.0-132	
Bromomethane	mg/kg	0.125	0.128	102	56.0-147	
n-Butylbenzene	mg/kg	0.125	0.126	101	68.0-135	
sec-Butylbenzene	mg/kg	0.125	0.122	97.6	74.0-130	
tert-Butylbenzene	mg/kg	0.125	0.115	92.0	75.0-127	
Carbon tetrachloride	mg/kg	0.125	0.119	95.2	66.0-128	
Chlorobenzene	mg/kg	0.125	0.125	100	76.0-128	
Dibromochloromethane	mg/kg	0.125	0.116	92.8	74.0-127	
Chloroethane	mg/kg	0.125	0.115	92.0	61.0-134	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

LABORATORY CONTROL SAMPLE: R3603447-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	mg/kg	0.125	0.118	94.4	72.0-123	
Chloromethane	mg/kg	0.125	0.109	87.2	51.0-138	
2-Chlorotoluene	mg/kg	0.125	0.122	97.6	75.0-124	
4-Chlorotoluene	mg/kg	0.125	0.117	93.6	75.0-124	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.149	119	59.0-130	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.121	96.8	74.0-128	
Dibromomethane	mg/kg	0.125	0.129	103	75.0-122	
1,2-Dichlorobenzene	mg/kg	0.125	0.127	102	76.0-124	
1,3-Dichlorobenzene	mg/kg	0.125	0.128	102	76.0-125	
1,4-Dichlorobenzene	mg/kg	0.125	0.122	97.6	77.0-121	
Dichlorodifluoromethane	mg/kg	0.125	0.101	80.8	43.0-156	
1,1-Dichloroethane	mg/kg	0.125	0.124	99.2	70.0-127	
1,2-Dichloroethane	mg/kg	0.125	0.0962	77.0	65.0-131	
1,1-Dichloroethene	mg/kg	0.125	0.119	95.2	65.0-131	
cis-1,2-Dichloroethene	mg/kg	0.125	0.121	96.8	73.0-125	
trans-1,2-Dichloroethene	mg/kg	0.125	0.122	97.6	71.0-125	
1,2-Dichloropropane	mg/kg	0.125	0.112	89.6	74.0-125	
1,1-Dichloropropene	mg/kg	0.125	0.124	99.2	73.0-125	
1,3-Dichloropropane	mg/kg	0.125	0.126	101	80.0-125	
cis-1,3-Dichloropropene	mg/kg	0.125	0.125	100	76.0-127	
trans-1,3-Dichloropropene	mg/kg	0.125	0.117	93.6	73.0-127	
2,2-Dichloropropane	mg/kg	0.125	0.107	85.6	59.0-135	
Diisopropyl ether	mg/kg	0.125	0.110	88.0	60.0-136	
Ethylbenzene	mg/kg	0.125	0.126	101	74.0-126	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.132	106	57.0-150	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.134	107	72.0-127	
p-Isopropyltoluene	mg/kg	0.125	0.122	97.6	72.0-133	
2-Butanone (MEK)	mg/kg	0.625	0.619	99.0	30.0-160	
Methylene Chloride	mg/kg	0.125	0.115	92.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.592	94.7	56.0-143	
Methyl-tert-butyl ether	mg/kg	0.125	0.107	85.6	66.0-132	
Naphthalene	mg/kg	0.125	0.173	138	59.0-130	L0
n-Propylbenzene	mg/kg	0.125	0.116	92.8	74.0-126	
Styrene	mg/kg	0.125	0.125	100	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	0.114	91.2	68.0-128	
Tetrachloroethene	mg/kg	0.125	0.119	95.2	70.0-136	
Toluene	mg/kg	0.125	0.119	95.2	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	0.157	126	59.0-139	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.164	131	62.0-137	
1,1,1-Trichloroethane	mg/kg	0.125	0.123	98.4	69.0-126	
1,1,2-Trichloroethane	mg/kg	0.125	0.116	92.8	78.0-123	
Trichloroethene	mg/kg	0.125	0.129	103	76.0-126	
Trichlorofluoromethane	mg/kg	0.125	0.106	84.8	61.0-142	
1,2,3-Trichloropropane	mg/kg	0.125	0.117	93.6	67.0-129	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.118	94.4	73.0-127	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

LABORATORY CONTROL SAMPLE: R3603447-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	mg/kg	0.125	0.125	100	63.0-134	
Xylene (Total)	mg/kg	0.375	0.381	102	72.0-127	
Toluene-d8 (S)	%			100	75.0-131	
4-Bromofluorobenzene (S)	%			106	67.0-138	
1,2-Dichloroethane-d4 (S)	%			95.0	70.0-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3603447-3 R3603447-4

Parameter	Units	92510412003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Acetone	mg/kg	ND	41.0	41.0	462	460	1280	1280	10.0-160	0.434	E,MH
Acrylonitrile	mg/kg	ND	41.0	41.0	86.4	87.5	240	243	10.0-160	1.27	MH
Benzene	mg/kg	120	8.17	8.17	118	120	0.00	0.00	10.0-149	1.68	P6
Bromobenzene	mg/kg	ND	8.17	8.17	8.03	7.90	112	110	10.0-156	1.63	
Bromodichloromethane	mg/kg	ND	8.17	8.17	6.34	3.86	88.1	53.6	10.0-143	48.6	R1
Bromoform	mg/kg	ND	8.17	8.17	8.79	7.79	122	108	10.0-146	12.1	
Bromomethane	mg/kg	ND	8.17	8.17	8.28	7.94	115	110	10.0-149	4.19	
n-Butylbenzene	mg/kg	15.3	8.17	8.17	27.4	27.8	168	174	10.0-160	1.45	MH
sec-Butylbenzene	mg/kg	5.72	8.17	8.17	15.3	15.3	133	133	10.0-159	0.00	
tert-Butylbenzene	mg/kg	ND	8.17	8.17	8.38	8.26	116	115	10.0-156	1.44	
Carbon tetrachloride	mg/kg	ND	8.17	8.17	7.41	7.72	103	107	10.0-145	4.10	
Chlorobenzene	mg/kg	ND	8.17	8.17	8.46	7.80	118	108	10.0-152	8.12	
Dibromochloromethane	mg/kg	ND	8.17	8.17	8.49	8.04	118	112	10.0-146	5.44	
Chloroethane	mg/kg	ND	8.17	8.17	7.36	7.09	102	98.5	10.0-146	3.74	
Chloroform	mg/kg	ND	8.17	8.17	11.9	11.9	165	165	10.0-146	0.00	MH
Chloromethane	mg/kg	ND	8.17	8.17	7.58	7.37	105	102	10.0-159	2.81	
2-Chlorotoluene	mg/kg	ND	8.17	8.17	8.31	8.11	115	113	10.0-159	2.44	
4-Chlorotoluene	mg/kg	ND	8.17	8.17	8.23	8.24	114	114	10.0-155	0.121	
1,2-Dibromo-3-chloropropane	mg/kg	ND	8.17	8.17	10.3	9.68	143	134	10.0-151	6.21	
1,2-Dibromoethane (EDB)	mg/kg	ND	8.17	8.17	8.66	8.14	120	113	10.0-148	6.19	
Dibromomethane	mg/kg	ND	8.17	8.17	7.73	7.61	107	106	10.0-147	1.56	
1,2-Dichlorobenzene	mg/kg	ND	8.17	8.17	8.70	8.85	121	123	10.0-155	1.71	
1,3-Dichlorobenzene	mg/kg	ND	8.17	8.17	8.69	8.93	121	124	10.0-153	2.72	
1,4-Dichlorobenzene	mg/kg	ND	8.17	8.17	7.89	8.02	110	111	10.0-151	1.63	
Dichlorodifluoromethane	mg/kg	ND	8.17	8.17	8.10	7.50	113	104	10.0-160	7.69	
1,1-Dichloroethane	mg/kg	ND	8.17	8.17	9.10	7.47	126	104	10.0-147	19.7	
1,2-Dichloroethane	mg/kg	ND	8.17	8.17	5.41	5.48	75.1	76.1	10.0-148	1.29	
1,1-Dichloroethene	mg/kg	ND	8.17	8.17	7.59	7.54	105	105	10.0-155	0.661	
cis-1,2-Dichloroethene	mg/kg	ND	8.17	8.17	7.86	7.86	109	109	10.0-149	0.00	
trans-1,2-Dichloroethene	mg/kg	ND	8.17	8.17	7.06	7.08	98.1	98.3	10.0-150	0.283	
1,2-Dichloropropane	mg/kg	ND	8.17	8.17	9.18	9.59	128	133	10.0-148	4.37	
1,1-Dichloropropene	mg/kg	ND	8.17	8.17	7.82	7.54	109	105	10.0-153	3.65	
1,3-Dichloropropane	mg/kg	ND	8.17	8.17	8.99	8.47	125	118	10.0-154	5.96	
cis-1,3-Dichloropropene	mg/kg	ND	8.17	8.17	6.92	7.07	96.1	98.2	10.0-151	2.14	
trans-1,3-Dichloropropene	mg/kg	ND	8.17	8.17	8.33	7.62	116	106	10.0-148	8.90	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3603447-3 R3603447-4

Parameter	Units	92510412003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
2,2-Dichloropropane	mg/kg	ND	8.17	8.17	4.00	4.85	55.6	67.4	10.0-138	19.2	
Diisopropyl ether	mg/kg	ND	8.17	8.17	8.24	8.61	114	120	10.0-147	4.39	
Ethylbenzene	mg/kg	243	8.17	8.17	264	237	292	0.00	10.0-160	10.8	E,P6
Hexachloro-1,3-butadiene	mg/kg	ND	8.17	8.17	9.51	9.43	132	131	10.0-160	0.845	
Isopropylbenzene (Cumene)	mg/kg	19.3	8.17	8.17	32.5	28.7	183	131	10.0-155	12.4	MH
p-Isopropyltoluene	mg/kg	3.49	8.17	8.17	14.0	12.9	146	131	10.0-160	8.18	
2-Butanone (MEK)	mg/kg	ND	41.0	41.0	419	63.5	1160	176	10.0-160	147	MH,R1
Methylene Chloride	mg/kg	ND	8.17	8.17	6.68	7.06	92.8	98.1	10.0-141	5.53	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	41.0	41.0	46.5	33.7	129	93.6	10.0-160	31.9	
Methyl-tert-butyl ether	mg/kg	ND	8.17	8.17	5.92	7.08	82.2	98.3	11.0-147	17.8	
Naphthalene	mg/kg	85.2	8.17	8.17	103	106	247	289	10.0-160	2.87	P6
n-Propylbenzene	mg/kg	85.9	8.17	8.17	91.3	91.2	75.0	73.6	10.0-158	0.110	
Styrene	mg/kg	ND	8.17	8.17	9.17	10.1	127	140	10.0-160	9.65	
1,1,1,2-Tetrachloroethane	mg/kg	ND	8.17	8.17	7.99	7.51	111	104	10.0-149	6.19	
1,1,2,2-Tetrachloroethane	mg/kg	ND	8.17	8.17	6.77	7.52	94.0	104	10.0-160	10.5	
Tetrachloroethene	mg/kg	ND	8.17	8.17	8.56	7.79	119	108	10.0-156	9.42	
Toluene	mg/kg	562	8.17	8.17	623	558	847	0.00	10.0-156	11.0	E,P6
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	8.17	8.17	8.92	8.59	124	119	10.0-160	3.77	
1,2,3-Trichlorobenzene	mg/kg	ND	8.17	8.17	12.3	13.0	171	181	10.0-160	5.53	MH
1,2,4-Trichlorobenzene	mg/kg	ND	8.17	8.17	12.3	12.9	171	179	10.0-160	4.76	MH
1,1,1-Trichloroethane	mg/kg	ND	8.17	8.17	8.30	9.44	115	131	10.0-144	12.9	
1,1,2-Trichloroethane	mg/kg	ND	8.17	8.17	15.6	14.2	217	197	10.0-160	9.40	MH
Trichloroethene	mg/kg	ND	8.17	8.17	8.18	8.19	114	114	10.0-156	0.122	
Trichlorofluoromethane	mg/kg	ND	8.17	8.17	8.11	7.82	113	109	10.0-160	3.64	
1,2,3-Trichloropropane	mg/kg	ND	8.17	8.17	7.62	7.75	106	108	10.0-156	1.69	
1,3,5-Trimethylbenzene	mg/kg	120	8.17	8.17	140	140	278	278	10.0-160	0.00	P6
Vinyl chloride	mg/kg	ND	8.17	8.17	8.10	7.66	113	106	10.0-160	5.58	
Xylene (Total)	mg/kg	1120	24.6	24.6	1230	1110	509	0.00	10.0-160	10.3	P6
Toluene-d8 (S)	%						112	104	75.0-131		
4-Bromofluorobenzene (S)	%						110	96.9	67.0-138		
1,2-Dichloroethane-d4 (S)	%						96.3	96.9	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1591977 | Analysis Method: EPA 8260D
QC Batch Method: 5035A | Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

METHOD BLANK: R3603727-3 Matrix: Solid
Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/kg	ND	0.00250	12/15/20 11:10	
Toluene	mg/kg	ND	0.00500	12/15/20 11:10	
1,2,3-Trimethylbenzene	mg/kg	ND	0.00500	12/15/20 11:10	
1,2,4-Trimethylbenzene	mg/kg	ND	0.00500	12/15/20 11:10	
Xylene (Total)	mg/kg	ND	0.00650	12/15/20 11:10	
Toluene-d8 (S)	%	106	75.0-131	12/15/20 11:10	
4-Bromofluorobenzene (S)	%	98.4	67.0-138	12/15/20 11:10	
1,2-Dichloroethane-d4 (S)	%	108	70.0-130	12/15/20 11:10	

LABORATORY CONTROL SAMPLE & LCSD: R3603727-1 R3603727-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethylbenzene	mg/kg	0.125	0.128	0.128	102	102	74.0-126	0.00	20	
Toluene	mg/kg	0.125	0.123	0.127	98.4	102	75.0-121	3.20	20	
1,2,3-Trimethylbenzene	mg/kg	0.125	0.127	0.125	102	100	74.0-124	1.59	20	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.132	0.133	106	106	70.0-126	0.755	20	
Xylene (Total)	mg/kg	0.375	0.416	0.398	111	106	72.0-127	4.42	20	
Toluene-d8 (S)	%				98.8	103	75.0-131			
4-Bromofluorobenzene (S)	%				102	97.2	67.0-138			
1,2-Dichloroethane-d4 (S)	%				115	105	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1591297
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92510412001

METHOD BLANK: R3603439-1 Matrix: Solid
Associated Lab Samples: 92510412001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	ND		12/14/20 07:38	

LABORATORY CONTROL SAMPLE: R3603439-2

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

SAMPLE DUPLICATE: R3603439-3

Parameter	Units	L1295012-10 Result	Dup Result	RPD	Qualifiers
Total Solids	%	79.8	80.1	0.386	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1591298
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510412003, 92510412004

METHOD BLANK: R3603588-1 Matrix: Solid
Associated Lab Samples: 92510412003, 92510412004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		12/14/20 11:40	

LABORATORY CONTROL SAMPLE: R3603588-2

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

SAMPLE DUPLICATE: R3603588-3

Parameter	Units	L1295700-02 Result	Dup Result	RPD	Qualifiers
Total Solids	%	87.5	88.4	0.974	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: L1-2020-2448
Pace Project No.: 92510412

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

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.
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.
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1-2020-2448
Pace Project No.: 92510412

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92510412001	**225-B**	MADEPV	1590860	MADEP VPH	1590860
92510412002	**250-B**	MADEPV	1590860	MADEP VPH	1590860
92510412002	**250-B**	MADEPV	1591416	MADEP VPH	1591416
92510412003	**275-B**	MADEPV	1590860	MADEP VPH	1590860
92510412003	**275-B**	MADEPV	1591416	MADEP VPH	1591416
92510412004	**300-B**	MADEPV	1590860	MADEP VPH	1590860
92510412005	**325-B**	MADEPV	1590860	MADEP VPH	1590860
92510412001	**225-B**	5035A	1590587	EPA 8260D	1590587
92510412001	**225-B**	5035A	1591977	EPA 8260D	1591977
92510412002	**250-B**	5035A	1590587	EPA 8260D	1590587
92510412002	**250-B**	5035A	1591977	EPA 8260D	1591977
92510412003	**275-B**	5035A	1590587	EPA 8260D	1590587
92510412003	**275-B**	5035A	1591977	EPA 8260D	1591977
92510412004	**300-B**	5035A	1590587	EPA 8260D	1590587
92510412004	**300-B**	5035A	1591977	EPA 8260D	1591977
92510412005	**325-B**	5035A	1590587	EPA 8260D	1590587
92510412005	**325-B**	5035A	1591977	EPA 8260D	1591977
92510412001	**225-B**	SM 2540 G	1591297	SM 2540G	1591297
92510412003	**275-B**	SM 2540 G	1591298	SM 2540G	1591298
92510412004	**300-B**	SM 2540 G	1591298	SM 2540G	1591298

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical™

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

LAB **WO# : 92510412**

92510412

er Number or

.Y

Con

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: L1-2020-2448	State: NC / County/City: Huntersville Time Zone Collected: [✓] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Matt Fraioli	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): MF	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 (Expedite Charges Apply)	Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

** 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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOC 8260	Analyses: MADEP VPH	Lab Sample # / Comments
MF ~~175-B~~ 225-B	SL	G	12/08	1143				3	X	X	001
MF ~~200-B~~ 250-B	SL	G	12/08	1137				3	X	X	002
MF ~~225-B~~ 275-B	SL	G	12/08	1134				3	X	X	003
300-B	SL	G	12/08	1121				3	X	X	004
325-B	SL	G	12/08	1125				3	X	X	005

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:

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)

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

Lab Tracking #: 2538999

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 92706H

Cooler 1 Temp Upon Receipt: 1.1 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 1.0 oC

Comments:

Relinquished by/Company: (Signature) MF / Apex	Date/Time: 1421 12/08/20	Received by/Company: (Signature) CDH PACE HVL	Date/Time: 12/8/20 1421
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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) / NO

Page: _____ of: _____

Pace Analytical
www.paceLabs.com

Sample Receiving Non-Conformance Form (NCF)

Date: 12-8-20	Evaluated by: MC
Client: APEX	

WO#: 92510412

PM: AMB Due Date: 12/15/20

CLIENT: 92-APEX MOOR

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		Samples listed on COC do not match samples received (missing, additional, etc.)
X	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:

One of the vials of Sample 225-B is labeled as 250B. The time matches with sample 225B 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)
X	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:

Samples 250-B and 325-B ~~are missi~~ SO 12/8/20 have one vial that is empty. There is no dry weight.

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:

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 02, 2020

Andrew Street
Apex Companies
5900-O Northwoods Business
Parkway
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

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

Sincerely,

Angela M. Baioni

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

Enclosures

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506486

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, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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-W**	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486014	**100-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486015	**100-E**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486016	**125-W**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486017	**125-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486018	**125-E**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486019	**150-W**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486020	**175-E**	MADEP VPH	ADM, DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486021	**150-W**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486022	**150-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92506486023	**175-W**	MADEP VPH	ADM, DWR	6	PAN
		EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KBC	1	PAN
92506486024	**175-B**	MADEP VPH	ADM, DWR	6	PAN
		EPA 8260D	ACG, ADM	68	PAN
		SM 2540G	KBC	1	PAN

PAN = Pace National - Mt. Juliet

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**3.97J**	mg/kg	8.86	2.96	1	11/15/20 10:55	11/23/20 19:11		J
Aliphatic (C09-C12)	**<8.86**	mg/kg	8.86	2.96	1	11/15/20 10:55	11/23/20 19:11		
Aromatic (C09-C10),Unadjusted	**<8.86**	mg/kg	8.86	2.96	1	11/15/20 10:55	11/23/20 19:11	TPHC9C10A	
Total VPH	**3.97J**	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	**<0.0880**	mg/kg	0.0880	0.0643	1	11/15/20 10:55	11/23/20 13:52	67-64-1	
Acrylonitrile	**<0.0220**	mg/kg	0.0220	0.00636	1	11/15/20 10:55	11/23/20 13:52	107-13-1	
Benzene	**0.138**	mg/kg	0.00176	0.000822	1	11/15/20 10:55	11/23/20 13:52	71-43-2	
Bromobenzene	**<0.0220**	mg/kg	0.0220	0.00158	1	11/15/20 10:55	11/23/20 13:52	108-86-1	
Bromodichloromethane	**<0.00440**	mg/kg	0.00440	0.00128	1	11/15/20 10:55	11/23/20 13:52	75-27-4	
Bromoform	**<0.0440**	mg/kg	0.0440	0.00206	1	11/15/20 10:55	11/23/20 13:52	75-25-2	
Bromomethane	**<0.0220**	mg/kg	0.0220	0.00347	1	11/15/20 10:55	11/23/20 13:52	74-83-9	
n-Butylbenzene	**<0.0220**	mg/kg	0.0220	0.00925	1	11/15/20 10:55	11/23/20 13:52	104-51-8	
sec-Butylbenzene	**<0.0220**	mg/kg	0.0220	0.00507	1	11/15/20 10:55	11/23/20 13:52	135-98-8	
tert-Butylbenzene	**<0.00880**	mg/kg	0.00880	0.00343	1	11/15/20 10:55	11/23/20 13:52	98-06-6	
Carbon tetrachloride	**<0.00880**	mg/kg	0.00880	0.00158	1	11/15/20 10:55	11/23/20 13:52	56-23-5	
Chlorobenzene	**<0.00440**	mg/kg	0.00440	0.000370	1	11/15/20 10:55	11/23/20 13:52	108-90-7	
Dibromochloromethane	**<0.00440**	mg/kg	0.00440	0.00108	1	11/15/20 10:55	11/23/20 13:52	124-48-1	
Chloroethane	**<0.00880**	mg/kg	0.00880	0.00299	1	11/15/20 10:55	11/23/20 13:52	75-00-3	
Chloroform	**<0.00440**	mg/kg	0.00440	0.00181	1	11/15/20 10:55	11/23/20 13:52	67-66-3	
Chloromethane	**<0.0220**	mg/kg	0.0220	0.00766	1	11/15/20 10:55	11/23/20 13:52	74-87-3	
2-Chlorotoluene	**<0.00440**	mg/kg	0.00440	0.00152	1	11/15/20 10:55	11/23/20 13:52	95-49-8	
4-Chlorotoluene	**<0.00880**	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	**<0.0440**	mg/kg	0.0440	0.00687	1	11/15/20 10:55	11/23/20 13:52	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00440**	mg/kg	0.00440	0.00114	1	11/15/20 10:55	11/23/20 13:52	106-93-4	
Dibromomethane	**<0.00880**	mg/kg	0.00880	0.00132	1	11/15/20 10:55	11/23/20 13:52	74-95-3	
1,2-Dichlorobenzene	**<0.00880**	mg/kg	0.00880	0.000748	1	11/15/20 10:55	11/23/20 13:52	95-50-1	
1,3-Dichlorobenzene	**<0.00880**	mg/kg	0.00880	0.00106	1	11/15/20 10:55	11/23/20 13:52	541-73-1	
1,4-Dichlorobenzene	**<0.00880**	mg/kg	0.00880	0.00123	1	11/15/20 10:55	11/23/20 13:52	106-46-7	
Dichlorodifluoromethane	**<0.00440**	mg/kg	0.00440	0.00284	1	11/15/20 10:55	11/23/20 13:52	75-71-8	
1,1-Dichloroethane	**<0.00440**	mg/kg	0.00440	0.000865	1	11/15/20 10:55	11/23/20 13:52	75-34-3	
1,2-Dichloroethane	**<0.00440**	mg/kg	0.00440	0.00114	1	11/15/20 10:55	11/23/20 13:52	107-06-2	
1,1-Dichloroethene	**<0.00440**	mg/kg	0.00440	0.00107	1	11/15/20 10:55	11/23/20 13:52	75-35-4	
cis-1,2-Dichloroethene	**<0.00440**	mg/kg	0.00440	0.00129	1	11/15/20 10:55	11/23/20 13:52	156-59-2	
trans-1,2-Dichloroethene	**<0.00880**	mg/kg	0.00880	0.00183	1	11/15/20 10:55	11/23/20 13:52	156-60-5	
1,2-Dichloropropane	**<0.00880**	mg/kg	0.00880	0.00250	1	11/15/20 10:55	11/23/20 13:52	78-87-5	
1,1-Dichloropropene	**<0.00440**	mg/kg	0.00440	0.00142	1	11/15/20 10:55	11/23/20 13:52	563-58-6	
1,3-Dichloropropane	**<0.00880**	mg/kg	0.00880	0.000882	1	11/15/20 10:55	11/23/20 13:52	142-28-9	
cis-1,3-Dichloropropene	**<0.00440**	mg/kg	0.00440	0.00133	1	11/15/20 10:55	11/23/20 13:52	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**7.03J**	mg/kg	8.68	2.90	1	11/15/20 14:40	11/23/20 20:50		J
Aliphatic (C09-C12)	**3.99J**	mg/kg	8.68	2.90	1	11/15/20 14:40	11/23/20 20:50		J
Aromatic (C09-C10),Unadjusted	**<8.68**	mg/kg	8.68	2.90	1	11/15/20 14:40	11/23/20 20:50	TPHC9C10A	
Total VPH	**11.0**	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	**<0.0889**	mg/kg	0.0889	0.0649	1	11/15/20 14:40	11/23/20 14:49	67-64-1	
Acrylonitrile	**<0.0222**	mg/kg	0.0222	0.00642	1	11/15/20 14:40	11/23/20 14:49	107-13-1	
Benzene	**0.444**	mg/kg	0.00178	0.000830	1	11/15/20 14:40	11/23/20 14:49	71-43-2	
Bromobenzene	**<0.0222**	mg/kg	0.0222	0.00160	1	11/15/20 14:40	11/23/20 14:49	108-86-1	
Bromodichloromethane	**<0.00444**	mg/kg	0.00444	0.00129	1	11/15/20 14:40	11/23/20 14:49	75-27-4	
Bromoform	**<0.0444**	mg/kg	0.0444	0.00208	1	11/15/20 14:40	11/23/20 14:49	75-25-2	
Bromomethane	**<0.0222**	mg/kg	0.0222	0.00350	1	11/15/20 14:40	11/23/20 14:49	74-83-9	
n-Butylbenzene	**<0.0222**	mg/kg	0.0222	0.00933	1	11/15/20 14:40	11/23/20 14:49	104-51-8	
sec-Butylbenzene	**<0.0222**	mg/kg	0.0222	0.00512	1	11/15/20 14:40	11/23/20 14:49	135-98-8	
tert-Butylbenzene	**<0.00889**	mg/kg	0.00889	0.00347	1	11/15/20 14:40	11/23/20 14:49	98-06-6	
Carbon tetrachloride	**<0.00889**	mg/kg	0.00889	0.00160	1	11/15/20 14:40	11/23/20 14:49	56-23-5	
Chlorobenzene	**<0.00444**	mg/kg	0.00444	0.000373	1	11/15/20 14:40	11/23/20 14:49	108-90-7	
Dibromochloromethane	**<0.00444**	mg/kg	0.00444	0.00109	1	11/15/20 14:40	11/23/20 14:49	124-48-1	
Chloroethane	**<0.00889**	mg/kg	0.00889	0.00302	1	11/15/20 14:40	11/23/20 14:49	75-00-3	
Chloroform	**<0.00444**	mg/kg	0.00444	0.00183	1	11/15/20 14:40	11/23/20 14:49	67-66-3	
Chloromethane	**<0.0222**	mg/kg	0.0222	0.00773	1	11/15/20 14:40	11/23/20 14:49	74-87-3	
2-Chlorotoluene	**<0.00444**	mg/kg	0.00444	0.00154	1	11/15/20 14:40	11/23/20 14:49	95-49-8	
4-Chlorotoluene	**<0.00889**	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	**<0.0444**	mg/kg	0.0444	0.00693	1	11/15/20 14:40	11/23/20 14:49	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00444**	mg/kg	0.00444	0.00115	1	11/15/20 14:40	11/23/20 14:49	106-93-4	
Dibromomethane	**<0.00889**	mg/kg	0.00889	0.00133	1	11/15/20 14:40	11/23/20 14:49	74-95-3	
1,2-Dichlorobenzene	**<0.00889**	mg/kg	0.00889	0.000756	1	11/15/20 14:40	11/23/20 14:49	95-50-1	
1,3-Dichlorobenzene	**<0.00889**	mg/kg	0.00889	0.00107	1	11/15/20 14:40	11/23/20 14:49	541-73-1	
1,4-Dichlorobenzene	**<0.00889**	mg/kg	0.00889	0.00124	1	11/15/20 14:40	11/23/20 14:49	106-46-7	
Dichlorodifluoromethane	**<0.00444**	mg/kg	0.00444	0.00286	1	11/15/20 14:40	11/23/20 14:49	75-71-8	
1,1-Dichloroethane	**<0.00444**	mg/kg	0.00444	0.000873	1	11/15/20 14:40	11/23/20 14:49	75-34-3	
1,2-Dichloroethane	**<0.00444**	mg/kg	0.00444	0.00115	1	11/15/20 14:40	11/23/20 14:49	107-06-2	
1,1-Dichloroethene	**<0.00444**	mg/kg	0.00444	0.00108	1	11/15/20 14:40	11/23/20 14:49	75-35-4	
cis-1,2-Dichloroethene	**<0.00444**	mg/kg	0.00444	0.00131	1	11/15/20 14:40	11/23/20 14:49	156-59-2	
trans-1,2-Dichloroethene	**<0.00889**	mg/kg	0.00889	0.00185	1	11/15/20 14:40	11/23/20 14:49	156-60-5	
1,2-Dichloropropane	**<0.00889**	mg/kg	0.00889	0.00252	1	11/15/20 14:40	11/23/20 14:49	78-87-5	
1,1-Dichloropropene	**<0.00444**	mg/kg	0.00444	0.00144	1	11/15/20 14:40	11/23/20 14:49	563-58-6	
1,3-Dichloropropane	**<0.00889**	mg/kg	0.00889	0.000891	1	11/15/20 14:40	11/23/20 14:49	142-28-9	
cis-1,3-Dichloropropene	**<0.00444**	mg/kg	0.00444	0.00135	1	11/15/20 14:40	11/23/20 14:49	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**4.26J**	mg/kg	8.83	2.95	1	11/15/20 14:55	11/23/20 21:23		J
Aliphatic (C09-C12)	**3.34J**	mg/kg	8.83	2.95	1	11/15/20 14:55	11/23/20 21:23		J
Aromatic (C09-C10),Unadjusted	**<8.83**	mg/kg	8.83	2.95	1	11/15/20 14:55	11/23/20 21:23	TPHC9C10A	
Total VPH	**7.60J**	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	**<0.0903**	mg/kg	0.0903	0.0659	1	11/15/20 14:55	11/23/20 15:07	67-64-1	
Acrylonitrile	**<0.0226**	mg/kg	0.0226	0.00652	1	11/15/20 14:55	11/23/20 15:07	107-13-1	
Benzene	**0.0143**	mg/kg	0.00181	0.000843	1	11/15/20 14:55	11/23/20 15:07	71-43-2	
Bromobenzene	**<0.0226**	mg/kg	0.0226	0.00162	1	11/15/20 14:55	11/23/20 15:07	108-86-1	
Bromodichloromethane	**<0.00451**	mg/kg	0.00451	0.00131	1	11/15/20 14:55	11/23/20 15:07	75-27-4	
Bromoform	**<0.0451**	mg/kg	0.0451	0.00211	1	11/15/20 14:55	11/23/20 15:07	75-25-2	
Bromomethane	**<0.0226**	mg/kg	0.0226	0.00356	1	11/15/20 14:55	11/23/20 15:07	74-83-9	
n-Butylbenzene	**<0.0226**	mg/kg	0.0226	0.00948	1	11/15/20 14:55	11/23/20 15:07	104-51-8	
sec-Butylbenzene	**<0.0226**	mg/kg	0.0226	0.00520	1	11/15/20 14:55	11/23/20 15:07	135-98-8	
tert-Butylbenzene	**<0.00903**	mg/kg	0.00903	0.00352	1	11/15/20 14:55	11/23/20 15:07	98-06-6	
Carbon tetrachloride	**<0.00903**	mg/kg	0.00903	0.00162	1	11/15/20 14:55	11/23/20 15:07	56-23-5	
Chlorobenzene	**<0.00451**	mg/kg	0.00451	0.000379	1	11/15/20 14:55	11/23/20 15:07	108-90-7	
Dibromochloromethane	**<0.00451**	mg/kg	0.00451	0.00110	1	11/15/20 14:55	11/23/20 15:07	124-48-1	
Chloroethane	**<0.00903**	mg/kg	0.00903	0.00307	1	11/15/20 14:55	11/23/20 15:07	75-00-3	
Chloroform	**<0.00451**	mg/kg	0.00451	0.00186	1	11/15/20 14:55	11/23/20 15:07	67-66-3	
Chloromethane	**<0.0226**	mg/kg	0.0226	0.00785	1	11/15/20 14:55	11/23/20 15:07	74-87-3	
2-Chlorotoluene	**<0.00451**	mg/kg	0.00451	0.00156	1	11/15/20 14:55	11/23/20 15:07	95-49-8	
4-Chlorotoluene	**<0.00903**	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	**<0.0451**	mg/kg	0.0451	0.00704	1	11/15/20 14:55	11/23/20 15:07	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00451**	mg/kg	0.00451	0.00117	1	11/15/20 14:55	11/23/20 15:07	106-93-4	
Dibromomethane	**<0.00903**	mg/kg	0.00903	0.00135	1	11/15/20 14:55	11/23/20 15:07	74-95-3	
1,2-Dichlorobenzene	**<0.00903**	mg/kg	0.00903	0.000767	1	11/15/20 14:55	11/23/20 15:07	95-50-1	
1,3-Dichlorobenzene	**<0.00903**	mg/kg	0.00903	0.00108	1	11/15/20 14:55	11/23/20 15:07	541-73-1	
1,4-Dichlorobenzene	**<0.00903**	mg/kg	0.00903	0.00126	1	11/15/20 14:55	11/23/20 15:07	106-46-7	
Dichlorodifluoromethane	**<0.00451**	mg/kg	0.00451	0.00291	1	11/15/20 14:55	11/23/20 15:07	75-71-8	
1,1-Dichloroethane	**<0.00451**	mg/kg	0.00451	0.000886	1	11/15/20 14:55	11/23/20 15:07	75-34-3	
1,2-Dichloroethane	**<0.00451**	mg/kg	0.00451	0.00117	1	11/15/20 14:55	11/23/20 15:07	107-06-2	
1,1-Dichloroethene	**<0.00451**	mg/kg	0.00451	0.00109	1	11/15/20 14:55	11/23/20 15:07	75-35-4	
cis-1,2-Dichloroethene	**<0.00451**	mg/kg	0.00451	0.00133	1	11/15/20 14:55	11/23/20 15:07	156-59-2	
trans-1,2-Dichloroethene	**<0.00903**	mg/kg	0.00903	0.00188	1	11/15/20 14:55	11/23/20 15:07	156-60-5	
1,2-Dichloropropane	**<0.00903**	mg/kg	0.00903	0.00256	1	11/15/20 14:55	11/23/20 15:07	78-87-5	
1,1-Dichloropropene	**<0.00451**	mg/kg	0.00451	0.00146	1	11/15/20 14:55	11/23/20 15:07	563-58-6	
1,3-Dichloropropane	**<0.00903**	mg/kg	0.00903	0.000904	1	11/15/20 14:55	11/23/20 15:07	142-28-9	
cis-1,3-Dichloropropene	**<0.00451**	mg/kg	0.00451	0.00137	1	11/15/20 14:55	11/23/20 15:07	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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
Surrogates									
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	
VOA (GC/MS) 8260D	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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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
Surrogates									
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	
VOA (GC/MS) 8260D	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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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)	**<6.54**	mg/kg	6.54	2.18	1	11/16/20 14:21	11/25/20 17:57		
Aromatic (C09-C10),Unadjusted	**<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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**2.53J**	mg/kg	6.39	2.13	1.05	11/16/20 13:40	11/25/20 18:30		J
Aliphatic (C09-C12)	**<6.39**	mg/kg	6.39	2.13	1.05	11/16/20 13:40	11/25/20 18:30		
Aromatic (C09-C10),Unadjusted	**<6.39**	mg/kg	6.39	2.13	1.05	11/16/20 13:40	11/25/20 18:30	TPHC9C10A	
Total VPH	**2.53J**	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	**<0.0616**	mg/kg	0.0616	0.0450	1	11/16/20 13:40	11/25/20 00:43	67-64-1	
Acrylonitrile	**<0.0154**	mg/kg	0.0154	0.00445	1	11/16/20 13:40	11/25/20 00:43	107-13-1	
Benzene	**0.0172**	mg/kg	0.00123	0.000575	1	11/16/20 13:40	11/25/20 00:43	71-43-2	
Bromobenzene	**<0.0154**	mg/kg	0.0154	0.00111	1	11/16/20 13:40	11/25/20 00:43	108-86-1	
Bromodichloromethane	**<0.00308**	mg/kg	0.00308	0.000893	1	11/16/20 13:40	11/25/20 00:43	75-27-4	
Bromoform	**<0.0308**	mg/kg	0.0308	0.00144	1	11/16/20 13:40	11/25/20 00:43	75-25-2	
Bromomethane	**<0.0154**	mg/kg	0.0154	0.00243	1	11/16/20 13:40	11/25/20 00:43	74-83-9	
n-Butylbenzene	**<0.0154**	mg/kg	0.0154	0.00647	1	11/16/20 13:40	11/25/20 00:43	104-51-8	
sec-Butylbenzene	**<0.0154**	mg/kg	0.0154	0.00355	1	11/16/20 13:40	11/25/20 00:43	135-98-8	
tert-Butylbenzene	**<0.00616**	mg/kg	0.00616	0.00240	1	11/16/20 13:40	11/25/20 00:43	98-06-6	
Carbon tetrachloride	**<0.00616**	mg/kg	0.00616	0.00111	1	11/16/20 13:40	11/25/20 00:43	56-23-5	
Chlorobenzene	**<0.00308**	mg/kg	0.00308	0.000259	1	11/16/20 13:40	11/25/20 00:43	108-90-7	
Dibromochloromethane	**<0.00308**	mg/kg	0.00308	0.000754	1	11/16/20 13:40	11/25/20 00:43	124-48-1	
Chloroethane	**<0.00616**	mg/kg	0.00616	0.00209	1	11/16/20 13:40	11/25/20 00:43	75-00-3	
Chloroform	**<0.00308**	mg/kg	0.00308	0.00127	1	11/16/20 13:40	11/25/20 00:43	67-66-3	
Chloromethane	**<0.0154**	mg/kg	0.0154	0.00536	1	11/16/20 13:40	11/25/20 00:43	74-87-3	
2-Chlorotoluene	**<0.00308**	mg/kg	0.00308	0.00107	1	11/16/20 13:40	11/25/20 00:43	95-49-8	
4-Chlorotoluene	**<0.00616**	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	**<0.0308**	mg/kg	0.0308	0.00480	1	11/16/20 13:40	11/25/20 00:43	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00308**	mg/kg	0.00308	0.000798	1	11/16/20 13:40	11/25/20 00:43	106-93-4	
Dibromomethane	**<0.00616**	mg/kg	0.00616	0.000924	1	11/16/20 13:40	11/25/20 00:43	74-95-3	
1,2-Dichlorobenzene	**<0.00616**	mg/kg	0.00616	0.000523	1	11/16/20 13:40	11/25/20 00:43	95-50-1	
1,3-Dichlorobenzene	**<0.00616**	mg/kg	0.00616	0.000739	1	11/16/20 13:40	11/25/20 00:43	541-73-1	
1,4-Dichlorobenzene	**<0.00616**	mg/kg	0.00616	0.000862	1	11/16/20 13:40	11/25/20 00:43	106-46-7	
Dichlorodifluoromethane	**<0.00308**	mg/kg	0.00308	0.00198	1	11/16/20 13:40	11/25/20 00:43	75-71-8	
1,1-Dichloroethane	**<0.00308**	mg/kg	0.00308	0.000605	1	11/16/20 13:40	11/25/20 00:43	75-34-3	
1,2-Dichloroethane	**<0.00308**	mg/kg	0.00308	0.000799	1	11/16/20 13:40	11/25/20 00:43	107-06-2	
1,1-Dichloroethene	**<0.00308**	mg/kg	0.00308	0.000746	1	11/16/20 13:40	11/25/20 00:43	75-35-4	L0
cis-1,2-Dichloroethene	**<0.00308**	mg/kg	0.00308	0.000904	1	11/16/20 13:40	11/25/20 00:43	156-59-2	
trans-1,2-Dichloroethene	**<0.00616**	mg/kg	0.00616	0.00128	1	11/16/20 13:40	11/25/20 00:43	156-60-5	
1,2-Dichloropropane	**<0.00616**	mg/kg	0.00616	0.00175	1	11/16/20 13:40	11/25/20 00:43	78-87-5	
1,1-Dichloropropene	**<0.00308**	mg/kg	0.00308	0.000996	1	11/16/20 13:40	11/25/20 00:43	563-58-6	
1,3-Dichloropropane	**<0.00616**	mg/kg	0.00616	0.000617	1	11/16/20 13:40	11/25/20 00:43	142-28-9	
cis-1,3-Dichloropropene	**<0.00308**	mg/kg	0.00308	0.000932	1	11/16/20 13:40	11/25/20 00:43	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506486

Sample: 150-W **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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**3.86J**	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03		J
Aliphatic (C09-C12)	**<6.99**	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03		
Aromatic (C09-C10),Unadjusted	**<6.99**	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03	TPHC9C10A	
Total VPH	**3.86J**	mg/kg	6.99	2.32	1.04	11/16/20 16:40	11/25/20 19:03	VPH	J
Surrogates									
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	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet								
Acetone	**<0.0684**	mg/kg	0.0684	0.0499	1	11/16/20 16:40	11/25/20 01:02	67-64-1	
Acrylonitrile	**<0.0171**	mg/kg	0.0171	0.00494	1	11/16/20 16:40	11/25/20 01:02	107-13-1	
Benzene	**0.0830**	mg/kg	0.00137	0.000639	1	11/16/20 16:40	11/25/20 01:02	71-43-2	
Bromobenzene	**<0.0171**	mg/kg	0.0171	0.00123	1	11/16/20 16:40	11/25/20 01:02	108-86-1	
Bromodichloromethane	**<0.00342**	mg/kg	0.00342	0.000992	1	11/16/20 16:40	11/25/20 01:02	75-27-4	
Bromoform	**<0.0342**	mg/kg	0.0342	0.00160	1	11/16/20 16:40	11/25/20 01:02	75-25-2	
Bromomethane	**<0.0171**	mg/kg	0.0171	0.00269	1	11/16/20 16:40	11/25/20 01:02	74-83-9	
n-Butylbenzene	**<0.0171**	mg/kg	0.0171	0.00718	1	11/16/20 16:40	11/25/20 01:02	104-51-8	
sec-Butylbenzene	**<0.0171**	mg/kg	0.0171	0.00394	1	11/16/20 16:40	11/25/20 01:02	135-98-8	
tert-Butylbenzene	**<0.00684**	mg/kg	0.00684	0.00267	1	11/16/20 16:40	11/25/20 01:02	98-06-6	
Carbon tetrachloride	**<0.00684**	mg/kg	0.00684	0.00123	1	11/16/20 16:40	11/25/20 01:02	56-23-5	
Chlorobenzene	**<0.00342**	mg/kg	0.00342	0.000287	1	11/16/20 16:40	11/25/20 01:02	108-90-7	
Dibromochloromethane	**<0.00342**	mg/kg	0.00342	0.000837	1	11/16/20 16:40	11/25/20 01:02	124-48-1	
Chloroethane	**<0.00684**	mg/kg	0.00684	0.00233	1	11/16/20 16:40	11/25/20 01:02	75-00-3	
Chloroform	**<0.00342**	mg/kg	0.00342	0.00141	1	11/16/20 16:40	11/25/20 01:02	67-66-3	
Chloromethane	**<0.0171**	mg/kg	0.0171	0.00595	1	11/16/20 16:40	11/25/20 01:02	74-87-3	
2-Chlorotoluene	**<0.00342**	mg/kg	0.00342	0.00118	1	11/16/20 16:40	11/25/20 01:02	95-49-8	
4-Chlorotoluene	**<0.00684**	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	**<0.0342**	mg/kg	0.0342	0.00533	1	11/16/20 16:40	11/25/20 01:02	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00342**	mg/kg	0.00342	0.000886	1	11/16/20 16:40	11/25/20 01:02	106-93-4	
Dibromomethane	**<0.00684**	mg/kg	0.00684	0.00103	1	11/16/20 16:40	11/25/20 01:02	74-95-3	
1,2-Dichlorobenzene	**<0.00684**	mg/kg	0.00684	0.000581	1	11/16/20 16:40	11/25/20 01:02	95-50-1	
1,3-Dichlorobenzene	**<0.00684**	mg/kg	0.00684	0.000821	1	11/16/20 16:40	11/25/20 01:02	541-73-1	
1,4-Dichlorobenzene	**<0.00684**	mg/kg	0.00684	0.000957	1	11/16/20 16:40	11/25/20 01:02	106-46-7	
Dichlorodifluoromethane	**<0.00342**	mg/kg	0.00342	0.00220	1	11/16/20 16:40	11/25/20 01:02	75-71-8	
1,1-Dichloroethane	**<0.00342**	mg/kg	0.00342	0.000672	1	11/16/20 16:40	11/25/20 01:02	75-34-3	
1,2-Dichloroethane	**<0.00342**	mg/kg	0.00342	0.000888	1	11/16/20 16:40	11/25/20 01:02	107-06-2	
1,1-Dichloroethene	**<0.00342**	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	**<0.00342**	mg/kg	0.00342	0.00100	1	11/16/20 16:40	11/25/20 01:02	156-59-2	
trans-1,2-Dichloroethene	**<0.00684**	mg/kg	0.00684	0.00142	1	11/16/20 16:40	11/25/20 01:02	156-60-5	
1,2-Dichloropropane	**<0.00684**	mg/kg	0.00684	0.00194	1	11/16/20 16:40	11/25/20 01:02	78-87-5	
1,1-Dichloropropene	**<0.00342**	mg/kg	0.00342	0.00111	1	11/16/20 16:40	11/25/20 01:02	563-58-6	
1,3-Dichloropropane	**<0.00684**	mg/kg	0.00684	0.000685	1	11/16/20 16:40	11/25/20 01:02	142-28-9	
cis-1,3-Dichloropropene	**<0.00342**	mg/kg	0.00342	0.00104	1	11/16/20 16:40	11/25/20 01:02	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506486

Sample: 150-W **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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
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 07:40	11/30/20 07:55		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	L0
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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**4.46J**	mg/kg	7.56	2.53	1	11/16/20 15:40	11/25/20 19:37		J
Aliphatic (C09-C12)	**3.68J**	mg/kg	7.56	2.53	1	11/16/20 15:40	11/25/20 19:37		J
Aromatic (C09-C10),Unadjusted	**<7.56**	mg/kg	7.56	2.53	1	11/16/20 15:40	11/25/20 19:37	TPHC9C10A	
Total VPH	**8.14**	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	**0.145**	mg/kg	0.0744	0.0543	1	11/16/20 15:40	11/25/20 01:21	67-64-1	
Acrylonitrile	**<0.0186**	mg/kg	0.0186	0.00538	1	11/16/20 15:40	11/25/20 01:21	107-13-1	
Benzene	**0.436**	mg/kg	0.00149	0.000695	1	11/16/20 15:40	11/25/20 01:21	71-43-2	
Bromobenzene	**<0.0186**	mg/kg	0.0186	0.00134	1	11/16/20 15:40	11/25/20 01:21	108-86-1	
Bromodichloromethane	**<0.00372**	mg/kg	0.00372	0.00108	1	11/16/20 15:40	11/25/20 01:21	75-27-4	
Bromoform	**<0.0372**	mg/kg	0.0372	0.00174	1	11/16/20 15:40	11/25/20 01:21	75-25-2	
Bromomethane	**<0.0186**	mg/kg	0.0186	0.00293	1	11/16/20 15:40	11/25/20 01:21	74-83-9	
n-Butylbenzene	**<0.0186**	mg/kg	0.0186	0.00782	1	11/16/20 15:40	11/25/20 01:21	104-51-8	
sec-Butylbenzene	**<0.0186**	mg/kg	0.0186	0.00429	1	11/16/20 15:40	11/25/20 01:21	135-98-8	
tert-Butylbenzene	**<0.00744**	mg/kg	0.00744	0.00290	1	11/16/20 15:40	11/25/20 01:21	98-06-6	
Carbon tetrachloride	**<0.00744**	mg/kg	0.00744	0.00134	1	11/16/20 15:40	11/25/20 01:21	56-23-5	
Chlorobenzene	**<0.00372**	mg/kg	0.00372	0.000313	1	11/16/20 15:40	11/25/20 01:21	108-90-7	
Dibromochloromethane	**<0.00372**	mg/kg	0.00372	0.000911	1	11/16/20 15:40	11/25/20 01:21	124-48-1	
Chloroethane	**<0.00744**	mg/kg	0.00744	0.00253	1	11/16/20 15:40	11/25/20 01:21	75-00-3	
Chloroform	**<0.00372**	mg/kg	0.00372	0.00153	1	11/16/20 15:40	11/25/20 01:21	67-66-3	
Chloromethane	**<0.0186**	mg/kg	0.0186	0.00648	1	11/16/20 15:40	11/25/20 01:21	74-87-3	
2-Chlorotoluene	**<0.00372**	mg/kg	0.00372	0.00129	1	11/16/20 15:40	11/25/20 01:21	95-49-8	
4-Chlorotoluene	**<0.00744**	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	**<0.0372**	mg/kg	0.0372	0.00581	1	11/16/20 15:40	11/25/20 01:21	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00372**	mg/kg	0.00372	0.000965	1	11/16/20 15:40	11/25/20 01:21	106-93-4	
Dibromomethane	**<0.00744**	mg/kg	0.00744	0.00112	1	11/16/20 15:40	11/25/20 01:21	74-95-3	
1,2-Dichlorobenzene	**<0.00744**	mg/kg	0.00744	0.000633	1	11/16/20 15:40	11/25/20 01:21	95-50-1	
1,3-Dichlorobenzene	**<0.00744**	mg/kg	0.00744	0.000893	1	11/16/20 15:40	11/25/20 01:21	541-73-1	
1,4-Dichlorobenzene	**<0.00744**	mg/kg	0.00744	0.00104	1	11/16/20 15:40	11/25/20 01:21	106-46-7	
Dichlorodifluoromethane	**<0.00372**	mg/kg	0.00372	0.00240	1	11/16/20 15:40	11/25/20 01:21	75-71-8	
1,1-Dichloroethane	**<0.00372**	mg/kg	0.00372	0.000731	1	11/16/20 15:40	11/25/20 01:21	75-34-3	
1,2-Dichloroethane	**<0.00372**	mg/kg	0.00372	0.000966	1	11/16/20 15:40	11/25/20 01:21	107-06-2	
1,1-Dichloroethene	**<0.00372**	mg/kg	0.00372	0.000902	1	11/16/20 15:40	11/25/20 01:21	75-35-4	L0
cis-1,2-Dichloroethene	**<0.00372**	mg/kg	0.00372	0.00109	1	11/16/20 15:40	11/25/20 01:21	156-59-2	
trans-1,2-Dichloroethene	**<0.00744**	mg/kg	0.00744	0.00155	1	11/16/20 15:40	11/25/20 01:21	156-60-5	
1,2-Dichloropropane	**<0.00744**	mg/kg	0.00744	0.00211	1	11/16/20 15:40	11/25/20 01:21	78-87-5	
1,1-Dichloropropene	**<0.00372**	mg/kg	0.00372	0.00120	1	11/16/20 15:40	11/25/20 01:21	563-58-6	
1,3-Dichloropropane	**<0.00744**	mg/kg	0.00744	0.000746	1	11/16/20 15:40	11/25/20 01:21	142-28-9	
cis-1,3-Dichloropropene	**<0.00372**	mg/kg	0.00372	0.00113	1	11/16/20 15:40	11/25/20 01:21	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**4800**	mg/kg	64.5	21.4	10	11/16/20 16:15	11/26/20 02:16		
Aliphatic (C09-C12)	**4720**	mg/kg	64.5	21.4	10	11/16/20 16:15	11/26/20 02:16		
Aromatic (C09-C10),Unadjusted	**686**	mg/kg	258	85.9	40	11/16/20 16:15	12/01/20 12:04	TPHC9C10A	
Total VPH	**9520**	mg/kg	64.5	21.4	10	11/16/20 16:15	11/26/20 02:16	VPH	
Surrogates									
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	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet								
Acetone	**<2.54**	mg/kg	2.54	1.85	40	11/16/20 16:15	11/25/20 03:15	67-64-1	MH
Acrylonitrile	**<0.635**	mg/kg	0.635	0.183	40	11/16/20 16:15	11/25/20 03:15	107-13-1	MH
Benzene	**27.4**	mg/kg	0.0508	0.0237	40	11/16/20 16:15	11/25/20 03:15	71-43-2	
Bromobenzene	**<0.635**	mg/kg	0.635	0.0457	40	11/16/20 16:15	11/25/20 03:15	108-86-1	
Bromodichloromethane	**<0.127**	mg/kg	0.127	0.0368	40	11/16/20 16:15	11/25/20 03:15	75-27-4	R1
Bromoform	**<1.27**	mg/kg	1.27	0.0594	40	11/16/20 16:15	11/25/20 03:15	75-25-2	
Bromomethane	**<0.635**	mg/kg	0.635	0.100	40	11/16/20 16:15	11/25/20 03:15	74-83-9	
n-Butylbenzene	**14.2**	mg/kg	0.635	0.267	40	11/16/20 16:15	11/25/20 03:15	104-51-8	
sec-Butylbenzene	**4.78**	mg/kg	0.635	0.146	40	11/16/20 16:15	11/25/20 03:15	135-98-8	
tert-Butylbenzene	**<0.254**	mg/kg	0.254	0.0990	40	11/16/20 16:15	11/25/20 03:15	98-06-6	
Carbon tetrachloride	**<0.254**	mg/kg	0.254	0.0456	40	11/16/20 16:15	11/25/20 03:15	56-23-5	
Chlorobenzene	**<0.127**	mg/kg	0.127	0.0107	40	11/16/20 16:15	11/25/20 03:15	108-90-7	
Dibromochloromethane	**<0.127**	mg/kg	0.127	0.0311	40	11/16/20 16:15	11/25/20 03:15	124-48-1	
Chloroethane	**<0.254**	mg/kg	0.254	0.0863	40	11/16/20 16:15	11/25/20 03:15	75-00-3	
Chloroform	**<0.127**	mg/kg	0.127	0.0523	40	11/16/20 16:15	11/25/20 03:15	67-66-3	MH
Chloromethane	**<0.635**	mg/kg	0.635	0.221	40	11/16/20 16:15	11/25/20 03:15	74-87-3	
2-Chlorotoluene	**<0.127**	mg/kg	0.127	0.0439	40	11/16/20 16:15	11/25/20 03:15	95-49-8	
4-Chlorotoluene	**<0.254**	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	**<1.27**	mg/kg	1.27	0.198	40	11/16/20 16:15	11/25/20 03:15	96-12-8	
1,2-Dibromoethane (EDB)	**<0.127**	mg/kg	0.127	0.0329	40	11/16/20 16:15	11/25/20 03:15	106-93-4	
Dibromomethane	**<0.254**	mg/kg	0.254	0.0381	40	11/16/20 16:15	11/25/20 03:15	74-95-3	
1,2-Dichlorobenzene	**<0.254**	mg/kg	0.254	0.0216	40	11/16/20 16:15	11/25/20 03:15	95-50-1	
1,3-Dichlorobenzene	**<0.254**	mg/kg	0.254	0.0305	40	11/16/20 16:15	11/25/20 03:15	541-73-1	
1,4-Dichlorobenzene	**<0.254**	mg/kg	0.254	0.0355	40	11/16/20 16:15	11/25/20 03:15	106-46-7	
Dichlorodifluoromethane	**<0.127**	mg/kg	0.127	0.0817	40	11/16/20 16:15	11/25/20 03:15	75-71-8	MH
1,1-Dichloroethane	**<0.127**	mg/kg	0.127	0.0249	40	11/16/20 16:15	11/25/20 03:15	75-34-3	MH
1,2-Dichloroethane	**<0.127**	mg/kg	0.127	0.0330	40	11/16/20 16:15	11/25/20 03:15	107-06-2	
1,1-Dichloroethene	**<0.127**	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	**<0.127**	mg/kg	0.127	0.0373	40	11/16/20 16:15	11/25/20 03:15	156-59-2	
trans-1,2-Dichloroethene	**<0.254**	mg/kg	0.254	0.0528	40	11/16/20 16:15	11/25/20 03:15	156-60-5	
1,2-Dichloropropane	**<0.254**	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	**<0.127**	mg/kg	0.127	0.0411	40	11/16/20 16:15	11/25/20 03:15	563-58-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	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	
Surrogates									
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	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet								
Acetone	**<1.14**	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	L0
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	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

LABORATORY CONTROL SAMPLE & LCSD: R3597451-1 R3597451-2

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	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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

LABORATORY CONTROL SAMPLE & LCSD: R3598732-1 R3598732-2

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	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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1582430
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
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	92506486022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1584209
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1581174
QC Batch Method: 5035A
Analysis Method: EPA 8260D
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	
1,1,2,2-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	
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

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
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	L0
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	92506486023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	mg/kg	ND	30.2	30.2	165	154	618	576	10.0-160	7.04	40	MH
Acrylonitrile	mg/kg	ND	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	6.81	6.20	128	116	10.0-156	9.31	38	
Benzene	mg/kg	24.2	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	6.91	3.24	130	60.8	10.0-143	72.3	37	R1
Bromoform	mg/kg	ND	6.03	6.03	6.87	7.22	129	136	10.0-146	5.10	36	
Bromomethane	mg/kg	ND	6.03	6.03	6.15	4.95	115	92.8	10.0-149	21.6	38	
n-Butylbenzene	mg/kg	12.6	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	10.8	9.54	124	99.6	10.0-159	12.6	39	
tert-Butylbenzene	mg/kg	ND	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	6.91	5.27	130	98.9	10.0-145	26.9	37	
Chlorobenzene	mg/kg	ND	6.03	6.03	6.35	6.16	119	116	10.0-152	3.05	39	
Dibromochloromethane	mg/kg	ND	6.03	6.03	5.88	6.09	110	114	10.0-146	3.56	37	
Chloroethane	mg/kg	ND	6.03	6.03	6.34	5.38	119	101	10.0-146	16.3	40	
Chloroform	mg/kg	ND	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	7.93	6.73	149	126	10.0-159	16.4	37	
2-Chlorotoluene	mg/kg	ND	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	7.20	6.27	135	118	10.0-155	13.8	39	
1,2-Dibromo-3-chloropropane	mg/kg	ND	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	6.11	6.43	115	121	10.0-148	5.01	34	
Dibromomethane	mg/kg	ND	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	6.81	6.10	128	115	10.0-155	10.9	37	
1,3-Dichlorobenzene	mg/kg	ND	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	6.55	5.92	123	111	10.0-151	10.1	38	
Dichlorodifluoromethane	mg/kg	ND	6.03	6.03	8.76	6.34	164	119	10.0-160	32.1	35	MH

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3597323-3 R3597323-4

Parameter	Units	92506486023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1582486
QC Batch Method: 5035A
Analysis Method: EPA 8260D
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1581972
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506486

QC Batch: 1582979
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
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

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	

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	

SAMPLE DUPLICATE: R3598612-3

Parameter	Units	92506486012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	74.8	76.0	1.59	10	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506486

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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-W**	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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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-W**	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-W**	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

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- WO#: 92506486

92506486

Company: Apex Companies LLC
Address:

Billing Information:

Report To: Andrew Street
Email To: Andrew Street
Copy To: Matt Gorman
Site Collection Info/Address:
Customer Project Name/Number: 2020-C1-2448
State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email: AStreet@apexcos.com
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [✓] No

Collected By (print): Rick McBride
Purchase Order #:
Quote #:
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 (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)

Container Preservative: 6, 6

** 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 Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	VOC's 8260	MADEP VPH	Lab Sample # / Comments: 92506486
0-W	SL	Grab	11/15/20	1055				5	✓	✓	001
0-B	SL	↓	↓	1110				5	✓	✓	002
0-E	SL	↓	↓	1125				5	✓	✓	003
25-W	SL	↓	↓	1440				5	✓	✓	004
25-B	SL	↓	↓	1455				5	✓	✓	005
25-E	SL	↓	↓	1505				5	✓	✓	006
50-W	SL	↓	↓	1520				5	✓	✓	007
50-B	SL	↓	↓	1530				5	✓	✓	008
50-E	SL	↓	↓	1650				5	✓	✓	009

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: ______
- Sulfide Present Y N (NA)
- Lead Acetate Strips: ______

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None
Packing Material Used: Other
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2560831
Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
- Temp Blank Received: Y N (NA)
- Therm ID#: 92T061
- Cooler 1 Temp Upon Receipt: 1.7, 1.6, 2.9 oC
- Cooler 1 Therm Corr. Factor: 0 oC
- Cooler 1 Corrected Temp: 1.7, 1.6, 2.9 oC
- Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / Apex	11/17/20/1240	[signature]	11-17-20 1240
[signature]	11-17-20 1329	Erick [signature] / 4UL	11/17/20 1329

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

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

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

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

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

ALL SHADED AREAS are for LAB USE ONLY

Company: Apex Companies LLC

Billing Information:

Address:

Report To: Andrew Street

Email To: Andrew Street

Copy To: Matt Garmon

Site Collection Info/Address:

Customer Project Name/Number: 2020-LI-2448

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

Phone:

Email: AStreet@apexcos.com

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Rick McBride

Purchase Order #:

Quote #:

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 (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)

Container Preservative Type **: 6 6

** 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 Project Manager:

Analyses: VOC 8260; MADEP VPH

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Lab Sample # / Comments
75-W	SL	Grab	11/6/20	1310				3	92506486-011
75-B				1319				3	012
75-E				1323				3	013
100-W				1412				3	014
100-B				1351				3	015
100-E				1330				3	016
125-W				1430				3	017
125-B				1421				3	018
125-E				1340				3	019

AMB 11-18-2020

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: _____
- Sulfide Present Y N NA
- Lead Acetate Strips: _____

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: Other

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

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

Lab Tracking #: 2560830

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: T2T061 1,6,2,9

Cooler 1 Temp Upon Receipt: 1.1 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 1.1 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	11/17/20 12:40		11/17/20 1240
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	11/17/20 129	Pace Courier HVC	11/17/20 13:29
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 / NO

Page: _____ of: _____

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

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

ALL SHADED AREAS are for LAB USE ONLY

Company: Apex Companies LLC
Address:
Billing Information:

Report To: Andrew Street
Email To: AStreet@apexcos.com
Copy To: Matt Cornman
Site Collection Info/Address:
Customer Project Name/Number: 2020-11-2448
State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email: AStreet@apexcos.com
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Rick McBride
Purchase Order #:
Quote #:
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 (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)

Container Preservative Type **: 6 | 6

** 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 Project Manager:

Analyses: VOC 8260 | MADEP UPH

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOC 8260	MADEP UPH	Lab Sample # / Comments
150-E	SL	Grab	11/16/20	1640				3	✓	✓	92506486 020
175-E	SL		11/16/20	1650				3	✓	✓	021
150-W	SL		11/16/20	1540				3	✓	✓	022
150-B	SL		11/16/20	1600				3	✓	✓	023
175-W	SL		11/16/20	1615				3	✓	✓	024
175-B	SL		11/16/20	1620				3	✓	✓	025

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: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

AMB 11-18

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None
Packing Material Used: other
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2560813
Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 92106 1,6,2,9
Cooler 1 Temp Upon Receipt: 1.1 oC
Cooler 1 Therm Corr. Factor: 0 oC 9
Cooler 1 Corrected Temp: 1.1, 1.6, 3 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Apex	11/17/20 1240		11-17-20 1240
	11-17-20 1329	Eurofins Pace HUC	11/17/20 1329

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 15, 2020

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

RE: Project: L1-2020-2448
Pace Project No.: 92510412

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 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 M. Baioni

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
Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: L1-2020-2448
Pace Project No.: 92510412

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: L1-2020-2448
Pace Project No.: 92510412

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92510412001	**225-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ADM, JHH	68	PAN
		SM 2540G	KDW	1	PAN
92510412002	**250-B**	MADEP VPH	BMB, DWR	6	PAN
		EPA 8260D	ADM, JHH	68	PAN
92510412003	**275-B**	MADEP VPH	BMB, DWR	6	PAN
		EPA 8260D	ADM, JHH	68	PAN
		SM 2540G	KBC	1	PAN
92510412004	**300-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ADM, JHH	68	PAN
		SM 2540G	KBC	1	PAN
92510412005	**325-B**	MADEP VPH	DWR	6	PAN
		EPA 8260D	ADM, JHH	68	PAN

PAN = Pace National - Mt. Juliet

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 225-B **Lab ID: 92510412001** Collected: 12/08/20 11:43 Received: 12/08/20 14:21 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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**59.3**	mg/kg	13.0	1.82	12/08/20 11:43	12/13/20 12:31		
Aliphatic (C09-C12)	**74.2**	mg/kg	13.0	1.82	12/08/20 11:43	12/13/20 12:31		
Aromatic (C09-C10),Unadjusted	**49.6**	mg/kg	13.0	1.82	12/08/20 11:43	12/13/20 12:31	TPHC9C10A	
Total VPH	**183**	mg/kg	13.0	1.82	12/08/20 11:43	12/13/20 12:31	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.0	%	70.0-130	1.82	12/08/20 11:43	12/13/20 12:31	615-59-8FID	
2,5-Dibromotoluene (PID)	90.6	%	70.0-130	1.82	12/08/20 11:43	12/13/20 12:31	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	0.151	1.82	12/08/20 11:43	12/13/20 09:42	67-64-1	
Acrylonitrile	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	107-13-1	
Benzene	**0.142**	mg/kg	0.00302	1.82	12/08/20 11:43	12/13/20 09:42	71-43-2	
Bromobenzene	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-27-4	
Bromoform	ND	mg/kg	0.0756	1.82	12/08/20 11:43	12/13/20 09:42	75-25-2	
Bromomethane	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	74-83-9	
n-Butylbenzene	**1.49**	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	104-51-8	
sec-Butylbenzene	**0.450**	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	56-23-5	
Chlorobenzene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	124-48-1	
Chloroethane	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	75-00-3	
Chloroform	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	67-66-3	
Chloromethane	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0756	1.82	12/08/20 11:43	12/13/20 09:42	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	106-93-4	
Dibromomethane	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	107-06-2	C4
1,1-Dichloroethene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 225-B **Lab ID: 92510412001** Collected: 12/08/20 11:43 Received: 12/08/20 14:21 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
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
2,2-Dichloropropane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	594-20-7	
Diisopropyl ether	**0.0457**	mg/kg	0.00302	1.82	12/08/20 11:43	12/13/20 09:42	108-20-3	
Ethylbenzene	**1.22**	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0756	1.82	12/08/20 11:43	12/13/20 09:42	87-68-3	
Isopropylbenzene (Cumene)	**0.422**	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	98-82-8	
p-Isopropyltoluene	**0.349**	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.302	1.82	12/08/20 11:43	12/13/20 09:42	78-93-3	
Methylene Chloride	ND	mg/kg	0.0756	1.82	12/08/20 11:43	12/13/20 09:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0756	1.82	12/08/20 11:43	12/13/20 09:42	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00302	1.82	12/08/20 11:43	12/13/20 09:42	1634-04-4	
Naphthalene	**2.04**	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	91-20-3	C5,L0
n-Propylbenzene	**1.96**	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	103-65-1	
Styrene	**0.365**	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	76-13-1	
Tetrachloroethene	**0.0621**	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	127-18-4	
Toluene	**1.47**	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	71-55-6	
1,1,2-Trichloroethane	**0.262**	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	79-00-5	
Trichloroethene	ND	mg/kg	0.00302	1.82	12/08/20 11:43	12/13/20 09:42	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0379	1.82	12/08/20 11:43	12/13/20 09:42	96-18-4	
1,2,4-Trimethylbenzene	**5.40**	mg/kg	0.121	14.6	12/08/20 11:43	12/15/20 12:40	95-63-6	
1,2,3-Trimethylbenzene	**1.54**	mg/kg	0.121	14.6	12/08/20 11:43	12/15/20 12:40	526-73-8	
1,3,5-Trimethylbenzene	**5.07**	mg/kg	0.0151	1.82	12/08/20 11:43	12/13/20 09:42	108-67-8	
Vinyl chloride	ND	mg/kg	0.00756	1.82	12/08/20 11:43	12/13/20 09:42	75-01-4	
Xylene (Total)	**11.7**	mg/kg	0.0196	1.82	12/08/20 11:43	12/13/20 09:42	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	75.0-131	1.82	12/08/20 11:43	12/13/20 09:42	2037-26-5	
Toluene-d8 (S)	100	%	75.0-131	14.6	12/08/20 11:43	12/15/20 12:40	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67.0-138	1.82	12/08/20 11:43	12/13/20 09:42	460-00-4	
4-Bromofluorobenzene (S)	105	%	67.0-138	14.6	12/08/20 11:43	12/15/20 12:40	460-00-4	
1,2-Dichloroethane-d4 (S)	97.4	%	70.0-130	1.82	12/08/20 11:43	12/13/20 09:42	17060-07-0	
1,2-Dichloroethane-d4 (S)	117	%	70.0-130	14.6	12/08/20 11:43	12/15/20 12:40	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**70.1**	%		1	12/14/20 07:22	12/14/20 07:38		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 250-B **Lab ID: 92510412002** Collected: 12/08/20 11:37 Received: 12/08/20 14:21 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**4770**	mg/kg	61.5	12.3	12/08/20 11:37	12/13/20 14:44		
Aliphatic (C09-C12)	**2770**	mg/kg	61.5	12.3	12/08/20 11:37	12/13/20 14:44		
Aromatic (C09-C10),Unadjusted	**1690**	mg/kg	248	49.6	12/08/20 11:37	12/14/20 15:31	TPHC9C10A	
Total VPH	**9230**	mg/kg	61.5	12.3	12/08/20 11:37	12/13/20 14:44	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.2	%	70.0-130	12.3	12/08/20 11:37	12/13/20 14:44	615-59-8FID	
2,5-Dibromotoluene (FID)	94.4	%	70.0-130	49.6	12/08/20 11:37	12/14/20 15:31	615-59-8FID	
2,5-Dibromotoluene (PID)	94.6	%	70.0-130	12.3	12/08/20 11:37	12/13/20 14:44	615-59-8PID	
2,5-Dibromotoluene (PID)	93.6	%	70.0-130	49.6	12/08/20 11:37	12/14/20 15:31	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.46	49.2	12/08/20 11:37	12/13/20 12:33	67-64-1	
Acrylonitrile	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	107-13-1	
Benzene	**53.2**	mg/kg	0.0492	49.2	12/08/20 11:37	12/13/20 12:33	71-43-2	
Bromobenzene	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	108-86-1	
Bromodichloromethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-27-4	
Bromoform	ND	mg/kg	1.23	49.2	12/08/20 11:37	12/13/20 12:33	75-25-2	
Bromomethane	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	74-83-9	
n-Butylbenzene	**14.2**	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	104-51-8	
sec-Butylbenzene	**5.65**	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	56-23-5	
Chlorobenzene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	108-90-7	
Dibromochloromethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	124-48-1	
Chloroethane	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	75-00-3	
Chloroform	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	67-66-3	
Chloromethane	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.23	49.2	12/08/20 11:37	12/13/20 12:33	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	106-93-4	
Dibromomethane	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	107-06-2	C4
1,1-Dichloroethene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	142-28-9	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 250-B **Lab ID: 92510412002** Collected: 12/08/20 11:37 Received: 12/08/20 14:21 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
cis-1,3-Dichloropropene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0492	49.2	12/08/20 11:37	12/13/20 12:33	108-20-3	
Ethylbenzene	**202**	mg/kg	2.46	984	12/08/20 11:37	12/15/20 12:58	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	1.23	49.2	12/08/20 11:37	12/13/20 12:33	87-68-3	
Isopropylbenzene (Cumene)	**18.3**	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	98-82-8	
p-Isopropyltoluene	**3.38**	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	99-87-6	
2-Butanone (MEK)	ND	mg/kg	4.92	49.2	12/08/20 11:37	12/13/20 12:33	78-93-3	
Methylene Chloride	ND	mg/kg	1.23	49.2	12/08/20 11:37	12/13/20 12:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.23	49.2	12/08/20 11:37	12/13/20 12:33	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0492	49.2	12/08/20 11:37	12/13/20 12:33	1634-04-4	
Naphthalene	**54.5**	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	91-20-3	C5,L0
n-Propylbenzene	**61.3**	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	103-65-1	
Styrene	**10.6**	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	76-13-1	
Tetrachloroethene	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	127-18-4	
Toluene	**600**	mg/kg	4.92	984	12/08/20 11:37	12/15/20 12:58	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	79-00-5	
Trichloroethene	ND	mg/kg	0.0492	49.2	12/08/20 11:37	12/13/20 12:33	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.615	49.2	12/08/20 11:37	12/13/20 12:33	96-18-4	
1,2,4-Trimethylbenzene	**287**	mg/kg	4.92	984	12/08/20 11:37	12/15/20 12:58	95-63-6	
1,2,3-Trimethylbenzene	**81.4**	mg/kg	4.92	984	12/08/20 11:37	12/15/20 12:58	526-73-8	
1,3,5-Trimethylbenzene	**92.4**	mg/kg	0.246	49.2	12/08/20 11:37	12/13/20 12:33	108-67-8	
Vinyl chloride	ND	mg/kg	0.123	49.2	12/08/20 11:37	12/13/20 12:33	75-01-4	
Xylene (Total)	**1130**	mg/kg	6.40	984	12/08/20 11:37	12/15/20 12:58	1330-20-7	
Surrogates								
Toluene-d8 (S)	115	%	75.0-131	49.2	12/08/20 11:37	12/13/20 12:33	2037-26-5	
Toluene-d8 (S)	101	%	75.0-131	984	12/08/20 11:37	12/15/20 12:58	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67.0-138	49.2	12/08/20 11:37	12/13/20 12:33	460-00-4	
4-Bromofluorobenzene (S)	102	%	67.0-138	984	12/08/20 11:37	12/15/20 12:58	460-00-4	
1,2-Dichloroethane-d4 (S)	98.7	%	70.0-130	49.2	12/08/20 11:37	12/13/20 12:33	17060-07-0	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130	984	12/08/20 11:37	12/15/20 12:58	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 275-B **Lab ID: 92510412003** Collected: 12/08/20 11:34 Received: 12/08/20 14:21 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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**6690**	mg/kg	102	14.4	12/08/20 11:34	12/13/20 15:17		
Aliphatic (C09-C12)	**3390**	mg/kg	102	14.4	12/08/20 11:34	12/13/20 15:17		
Aromatic (C09-C10),Unadjusted	**2220**	mg/kg	387	54	12/08/20 11:34	12/14/20 16:04	TPHC9C10A	
Total VPH	**12300**	mg/kg	102	14.4	12/08/20 11:34	12/13/20 15:17	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.3	%	70.0-130	14.4	12/08/20 11:34	12/13/20 15:17	615-59-8FID	
2,5-Dibromotoluene (FID)	97.9	%	70.0-130	54	12/08/20 11:34	12/14/20 16:04	615-59-8FID	
2,5-Dibromotoluene (PID)	96.3	%	70.0-130	14.4	12/08/20 11:34	12/13/20 15:17	615-59-8PID	
2,5-Dibromotoluene (PID)	97.1	%	70.0-130	54	12/08/20 11:34	12/14/20 16:04	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	4.10	57.6	12/08/20 11:34	12/13/20 12:52	67-64-1	MH
Acrylonitrile	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	107-13-1	MH
Benzene	**171**	mg/kg	0.0819	57.6	12/08/20 11:34	12/13/20 12:52	71-43-2	P6
Bromobenzene	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	108-86-1	
Bromodichloromethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-27-4	R1
Bromoform	ND	mg/kg	2.05	57.6	12/08/20 11:34	12/13/20 12:52	75-25-2	
Bromomethane	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	74-83-9	
n-Butylbenzene	**21.8**	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	104-51-8	MH
sec-Butylbenzene	**8.14**	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	56-23-5	
Chlorobenzene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	108-90-7	
Dibromochloromethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	124-48-1	
Chloroethane	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	75-00-3	
Chloroform	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	67-66-3	MH
Chloromethane	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	2.05	57.6	12/08/20 11:34	12/13/20 12:52	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	106-93-4	
Dibromomethane	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	107-06-2	C4
1,1-Dichloroethene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	142-28-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 275-B **Lab ID: 92510412003** Collected: 12/08/20 11:34 Received: 12/08/20 14:21 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
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
cis-1,3-Dichloropropene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0819	57.6	12/08/20 11:34	12/13/20 12:52	108-20-3	
Ethylbenzene	**260**	mg/kg	4.10	1150	12/08/20 11:34	12/15/20 13:18	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	2.05	57.6	12/08/20 11:34	12/13/20 12:52	87-68-3	
Isopropylbenzene (Cumene)	**27.5**	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	98-82-8	MH
p-Isopropyltoluene	**4.97**	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	99-87-6	
2-Butanone (MEK)	ND	mg/kg	8.19	57.6	12/08/20 11:34	12/13/20 12:52	78-93-3	MH,R1
Methylene Chloride	ND	mg/kg	2.05	57.6	12/08/20 11:34	12/13/20 12:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.05	57.6	12/08/20 11:34	12/13/20 12:52	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0819	57.6	12/08/20 11:34	12/13/20 12:52	1634-04-4	
Naphthalene	**121**	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	91-20-3	C5,L0, P6
n-Propylbenzene	**122**	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	103-65-1	
Styrene	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	76-13-1	
Tetrachloroethene	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	127-18-4	
Toluene	**1110**	mg/kg	8.18	1150	12/08/20 11:34	12/15/20 13:18	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	87-61-6	MH
1,2,4-Trichlorobenzene	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	120-82-1	MH
1,1,1-Trichloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	79-00-5	MH
Trichloroethene	ND	mg/kg	0.0819	57.6	12/08/20 11:34	12/13/20 12:52	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	1.02	57.6	12/08/20 11:34	12/13/20 12:52	96-18-4	
1,2,4-Trimethylbenzene	**511**	mg/kg	8.18	1150	12/08/20 11:34	12/15/20 13:18	95-63-6	
1,2,3-Trimethylbenzene	**135**	mg/kg	8.18	1150	12/08/20 11:34	12/15/20 13:18	526-73-8	
1,3,5-Trimethylbenzene	**171**	mg/kg	0.410	57.6	12/08/20 11:34	12/13/20 12:52	108-67-8	P6
Vinyl chloride	ND	mg/kg	0.205	57.6	12/08/20 11:34	12/13/20 12:52	75-01-4	
Xylene (Total)	**1440**	mg/kg	10.6	1150	12/08/20 11:34	12/15/20 13:18	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	75.0-131	57.6	12/08/20 11:34	12/13/20 12:52	2037-26-5	
Toluene-d8 (S)	101	%	75.0-131	1150	12/08/20 11:34	12/15/20 13:18	2037-26-5	
4-Bromofluorobenzene (S)	96.5	%	67.0-138	57.6	12/08/20 11:34	12/13/20 12:52	460-00-4	
4-Bromofluorobenzene (S)	101	%	67.0-138	1150	12/08/20 11:34	12/15/20 13:18	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130	57.6	12/08/20 11:34	12/13/20 12:52	17060-07-0	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130	1150	12/08/20 11:34	12/15/20 13:18	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**80.0**	%		1	12/14/20 11:28	12/14/20 11:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 300-B **Lab ID: 92510412004** Collected: 12/08/20 11:21 Received: 12/08/20 14:21 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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**12.8**	mg/kg	10.6	1.49	12/08/20 11:21	12/13/20 13:04		
Aliphatic (C09-C12)	ND	mg/kg	10.6	1.49	12/08/20 11:21	12/13/20 13:04		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	10.6	1.49	12/08/20 11:21	12/13/20 13:04	TPHC9C10A	
Total VPH	**25.2**	mg/kg	10.6	1.49	12/08/20 11:21	12/13/20 13:04	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.0	%	70.0-130	1.49	12/08/20 11:21	12/13/20 13:04	615-59-8FID	
2,5-Dibromotoluene (PID)	93.2	%	70.0-130	1.49	12/08/20 11:21	12/13/20 13:04	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	0.106	1.49	12/08/20 11:21	12/13/20 10:01	67-64-1	
Acrylonitrile	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	107-13-1	
Benzene	**0.967**	mg/kg	0.00211	1.49	12/08/20 11:21	12/13/20 10:01	71-43-2	
Bromobenzene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-27-4	
Bromoform	ND	mg/kg	0.0529	1.49	12/08/20 11:21	12/13/20 10:01	75-25-2	
Bromomethane	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	56-23-5	
Chlorobenzene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	124-48-1	
Chloroethane	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	75-00-3	
Chloroform	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	67-66-3	
Chloromethane	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0529	1.49	12/08/20 11:21	12/13/20 10:01	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	106-93-4	
Dibromomethane	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	107-06-2	C4
1,1-Dichloroethene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 300-B **Lab ID: 92510412004** Collected: 12/08/20 11:21 Received: 12/08/20 14:21 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
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
2,2-Dichloropropane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	594-20-7	
Diisopropyl ether	**0.00877**	mg/kg	0.00211	1.49	12/08/20 11:21	12/13/20 10:01	108-20-3	
Ethylbenzene	**0.137**	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0529	1.49	12/08/20 11:21	12/13/20 10:01	87-68-3	
Isopropylbenzene (Cumene)	**0.00586**	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.211	1.49	12/08/20 11:21	12/13/20 10:01	78-93-3	
Methylene Chloride	ND	mg/kg	0.0529	1.49	12/08/20 11:21	12/13/20 10:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0529	1.49	12/08/20 11:21	12/13/20 10:01	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00211	1.49	12/08/20 11:21	12/13/20 10:01	1634-04-4	
Naphthalene	**0.0275**	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	91-20-3	C5,L0
n-Propylbenzene	**0.0148**	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	103-65-1	
Styrene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	127-18-4	
Toluene	**3.02**	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	79-00-5	
Trichloroethene	ND	mg/kg	0.00211	1.49	12/08/20 11:21	12/13/20 10:01	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0264	1.49	12/08/20 11:21	12/13/20 10:01	96-18-4	
1,2,4-Trimethylbenzene	**0.150**	mg/kg	0.0106	1.49	12/08/20 11:21	12/15/20 13:36	95-63-6	
1,2,3-Trimethylbenzene	**0.0309**	mg/kg	0.0106	1.49	12/08/20 11:21	12/15/20 13:36	526-73-8	
1,3,5-Trimethylbenzene	**0.0850**	mg/kg	0.0106	1.49	12/08/20 11:21	12/13/20 10:01	108-67-8	
Vinyl chloride	ND	mg/kg	0.00529	1.49	12/08/20 11:21	12/13/20 10:01	75-01-4	
Xylene (Total)	**1.22**	mg/kg	0.0137	1.49	12/08/20 11:21	12/13/20 10:01	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	75.0-131	1.49	12/08/20 11:21	12/13/20 10:01	2037-26-5	
Toluene-d8 (S)	105	%	75.0-131	1.49	12/08/20 11:21	12/15/20 13:36	2037-26-5	
4-Bromofluorobenzene (S)	96.9	%	67.0-138	1.49	12/08/20 11:21	12/13/20 10:01	460-00-4	
4-Bromofluorobenzene (S)	99.0	%	67.0-138	1.49	12/08/20 11:21	12/15/20 13:36	460-00-4	
1,2-Dichloroethane-d4 (S)	82.9	%	70.0-130	1.49	12/08/20 11:21	12/13/20 10:01	17060-07-0	
1,2-Dichloroethane-d4 (S)	99.7	%	70.0-130	1.49	12/08/20 11:21	12/15/20 13:36	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**79.9**	%		1	12/14/20 11:28	12/14/20 11:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 325-B **Lab ID: 92510412005** Collected: 12/08/20 11:25 Received: 12/08/20 14:21 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**9.14**	mg/kg	5.35	1.07	12/08/20 11:25	12/13/20 13:37		
Aliphatic (C09-C12)	ND	mg/kg	5.35	1.07	12/08/20 11:25	12/13/20 13:37		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	5.35	1.07	12/08/20 11:25	12/13/20 13:37	TPHC9C10A	
Total VPH	**11.6**	mg/kg	5.35	1.07	12/08/20 11:25	12/13/20 13:37	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.5	%	70.0-130	1.07	12/08/20 11:25	12/13/20 13:37	615-59-8FID	
2,5-Dibromotoluene (PID)	92.3	%	70.0-130	1.07	12/08/20 11:25	12/13/20 13:37	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	0.0535	1.07	12/08/20 11:25	12/13/20 10:19	67-64-1	
Acrylonitrile	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	107-13-1	
Benzene	**0.166**	mg/kg	0.00107	1.07	12/08/20 11:25	12/13/20 10:19	71-43-2	
Bromobenzene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-27-4	
Bromoform	ND	mg/kg	0.0268	1.07	12/08/20 11:25	12/13/20 10:19	75-25-2	
Bromomethane	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	56-23-5	
Chlorobenzene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	124-48-1	
Chloroethane	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	75-00-3	
Chloroform	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	67-66-3	
Chloromethane	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0268	1.07	12/08/20 11:25	12/13/20 10:19	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	106-93-4	
Dibromomethane	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	107-06-2	C4
1,1-Dichloroethene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: L1-2020-2448
Pace Project No.: 92510412

Sample: 325-B **Lab ID: 92510412005** Collected: 12/08/20 11:25 Received: 12/08/20 14:21 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
2,2-Dichloropropane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00107	1.07	12/08/20 11:25	12/13/20 10:19	108-20-3	
Ethylbenzene	**0.0335**	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0268	1.07	12/08/20 11:25	12/13/20 10:19	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.107	1.07	12/08/20 11:25	12/13/20 10:19	78-93-3	
Methylene Chloride	ND	mg/kg	0.0268	1.07	12/08/20 11:25	12/13/20 10:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0268	1.07	12/08/20 11:25	12/13/20 10:19	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00107	1.07	12/08/20 11:25	12/13/20 10:19	1634-04-4	
Naphthalene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	91-20-3	L0
n-Propylbenzene	ND	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	103-65-1	
Styrene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	127-18-4	
Toluene	**0.521**	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	79-00-5	
Trichloroethene	ND	mg/kg	0.00107	1.07	12/08/20 11:25	12/13/20 10:19	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0134	1.07	12/08/20 11:25	12/13/20 10:19	96-18-4	
1,2,4-Trimethylbenzene	**0.0222**	mg/kg	0.00535	1.07	12/08/20 11:25	12/15/20 13:55	95-63-6	
1,2,3-Trimethylbenzene	**0.00720**	mg/kg	0.00535	1.07	12/08/20 11:25	12/15/20 13:55	526-73-8	
1,3,5-Trimethylbenzene	**0.0164**	mg/kg	0.00535	1.07	12/08/20 11:25	12/13/20 10:19	108-67-8	
Vinyl chloride	ND	mg/kg	0.00268	1.07	12/08/20 11:25	12/13/20 10:19	75-01-4	
Xylene (Total)	**0.189**	mg/kg	0.00696	1.07	12/08/20 11:25	12/13/20 10:19	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	75.0-131	1.07	12/08/20 11:25	12/13/20 10:19	2037-26-5	
Toluene-d8 (S)	108	%	75.0-131	1.07	12/08/20 11:25	12/15/20 13:55	2037-26-5	
4-Bromofluorobenzene (S)	98.9	%	67.0-138	1.07	12/08/20 11:25	12/13/20 10:19	460-00-4	
4-Bromofluorobenzene (S)	98.0	%	67.0-138	1.07	12/08/20 11:25	12/15/20 13:55	460-00-4	
1,2-Dichloroethane-d4 (S)	81.2	%	70.0-130	1.07	12/08/20 11:25	12/13/20 10:19	17060-07-0	
1,2-Dichloroethane-d4 (S)	99.1	%	70.0-130	1.07	12/08/20 11:25	12/15/20 13:55	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1590860 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

METHOD BLANK: R3602971-3 Matrix: Solid
Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	12/13/20 04:11	
Aliphatic (C09-C12)	mg/kg	ND	5.00	12/13/20 04:11	
Aromatic (C09-C10),Unadjusted	mg/kg	ND	5.00	12/13/20 04:11	
Total VPH	mg/kg	ND	5.00	12/13/20 04:11	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	12/13/20 04:11	
2,5-Dibromotoluene (PID)	%	86.3	70.0-130	12/13/20 04:11	

LABORATORY CONTROL SAMPLE & LCSD: R3602971-1 R3602971-2

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	63.5	59.3	106	98.8	70.0-130	6.84	25	
Aliphatic (C09-C12)	mg/kg	70.0	72.6	68.8	104	98.3	70.0-130	5.37	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	10.5	10.1	105	101	70.0-130	3.88	25	
Total VPH	mg/kg	140	147	138	105	98.6	70.0-130	6.32	25	
2,5-Dibromotoluene (FID)	%				97.3	101	70.0-130			
2,5-Dibromotoluene (PID)	%				99.2	101	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3602971-4 R3602971-5

Parameter	Units	L1293914-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aliphatic (C05-C08)	mg/kg	ND	190	190	219	206	115	108	70.0-130	6.12	
Aliphatic (C09-C12)	mg/kg	40.9	221	221	324	336	128	134	70.0-130	3.64	MH
Aromatic (C09-C10),Unadjusted	mg/kg	50.3	31.6	31.6	87.9	87.2	119	117	70.0-130	0.800	
Total VPH	mg/kg	91.2	442	442	631	629	122	122	70.0-130	0.317	
2,5-Dibromotoluene (FID)	%						108	98.0	70.0-130		
2,5-Dibromotoluene (PID)	%						86.3	79.1	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1591416
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510412002, 92510412003

METHOD BLANK: R3603355-3 Matrix: Solid
Associated Lab Samples: 92510412002, 92510412003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	mg/kg	ND	5.00	12/14/20 01:29	
2,5-Dibromotoluene (FID)	%	87.4	70.0-130	12/14/20 01:29	
2,5-Dibromotoluene (PID)	%	85.7	70.0-130	12/14/20 01:29	

LABORATORY CONTROL SAMPLE & LCSD: R3603355-1 R3603355-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	10.3	10.2	103	102	70.0-130	0.976	25	
2,5-Dibromotoluene (FID)	%				100	93.2	70.0-130			
2,5-Dibromotoluene (PID)	%				100	91.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1590587 | Analysis Method: EPA 8260D
QC Batch Method: 5035A | Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

METHOD BLANK: R3603447-2 Matrix: Solid

Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	0.0500	12/13/20 06:31	
Acrylonitrile	mg/kg	ND	0.0125	12/13/20 06:31	
Benzene	mg/kg	ND	0.00100	12/13/20 06:31	
Bromobenzene	mg/kg	ND	0.0125	12/13/20 06:31	
Bromodichloromethane	mg/kg	ND	0.00250	12/13/20 06:31	
Bromoform	mg/kg	ND	0.0250	12/13/20 06:31	
Bromomethane	mg/kg	ND	0.0125	12/13/20 06:31	
n-Butylbenzene	mg/kg	ND	0.0125	12/13/20 06:31	
sec-Butylbenzene	mg/kg	ND	0.0125	12/13/20 06:31	
tert-Butylbenzene	mg/kg	ND	0.00500	12/13/20 06:31	
Carbon tetrachloride	mg/kg	ND	0.00500	12/13/20 06:31	
Chlorobenzene	mg/kg	ND	0.00250	12/13/20 06:31	
Dibromochloromethane	mg/kg	ND	0.00250	12/13/20 06:31	
Chloroethane	mg/kg	ND	0.00500	12/13/20 06:31	
Chloroform	mg/kg	ND	0.00250	12/13/20 06:31	
Chloromethane	mg/kg	ND	0.0125	12/13/20 06:31	
2-Chlorotoluene	mg/kg	ND	0.00250	12/13/20 06:31	
4-Chlorotoluene	mg/kg	ND	0.00500	12/13/20 06:31	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0250	12/13/20 06:31	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.00250	12/13/20 06:31	
Dibromomethane	mg/kg	ND	0.00500	12/13/20 06:31	
1,2-Dichlorobenzene	mg/kg	ND	0.00500	12/13/20 06:31	
1,3-Dichlorobenzene	mg/kg	ND	0.00500	12/13/20 06:31	
1,4-Dichlorobenzene	mg/kg	ND	0.00500	12/13/20 06:31	
Dichlorodifluoromethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,1-Dichloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,2-Dichloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,1-Dichloroethene	mg/kg	ND	0.00250	12/13/20 06:31	
cis-1,2-Dichloroethene	mg/kg	ND	0.00250	12/13/20 06:31	
trans-1,2-Dichloroethene	mg/kg	ND	0.00500	12/13/20 06:31	
1,2-Dichloropropane	mg/kg	ND	0.00500	12/13/20 06:31	
1,1-Dichloropropene	mg/kg	ND	0.00250	12/13/20 06:31	
1,3-Dichloropropane	mg/kg	ND	0.00500	12/13/20 06:31	
cis-1,3-Dichloropropene	mg/kg	ND	0.00250	12/13/20 06:31	
trans-1,3-Dichloropropene	mg/kg	ND	0.00500	12/13/20 06:31	
2,2-Dichloropropane	mg/kg	ND	0.00250	12/13/20 06:31	
Diisopropyl ether	mg/kg	ND	0.00100	12/13/20 06:31	
Ethylbenzene	mg/kg	ND	0.00250	12/13/20 06:31	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0250	12/13/20 06:31	
Isopropylbenzene (Cumene)	mg/kg	ND	0.00250	12/13/20 06:31	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

METHOD BLANK: R3603447-2 Matrix: Solid
Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	mg/kg	ND	0.00500	12/13/20 06:31	
2-Butanone (MEK)	mg/kg	ND	0.100	12/13/20 06:31	
Methylene Chloride	mg/kg	ND	0.0250	12/13/20 06:31	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.0250	12/13/20 06:31	
Methyl-tert-butyl ether	mg/kg	ND	0.00100	12/13/20 06:31	
Naphthalene	mg/kg	ND	0.0125	12/13/20 06:31	
n-Propylbenzene	mg/kg	ND	0.00500	12/13/20 06:31	
Styrene	mg/kg	ND	0.0125	12/13/20 06:31	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
Tetrachloroethene	mg/kg	ND	0.00250	12/13/20 06:31	
Toluene	mg/kg	ND	0.00500	12/13/20 06:31	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0125	12/13/20 06:31	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0125	12/13/20 06:31	
1,1,1-Trichloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,1,2-Trichloroethane	mg/kg	ND	0.00250	12/13/20 06:31	
Trichloroethene	mg/kg	ND	0.00100	12/13/20 06:31	
Trichlorofluoromethane	mg/kg	ND	0.00250	12/13/20 06:31	
1,2,3-Trichloropropane	mg/kg	ND	0.0125	12/13/20 06:31	
1,3,5-Trimethylbenzene	mg/kg	ND	0.00500	12/13/20 06:31	
Vinyl chloride	mg/kg	ND	0.00250	12/13/20 06:31	
Xylene (Total)	mg/kg	ND	0.00650	12/13/20 06:31	
Toluene-d8 (S)	%	109	75.0-131	12/13/20 06:31	
4-Bromofluorobenzene (S)	%	96.7	67.0-138	12/13/20 06:31	
1,2-Dichloroethane-d4 (S)	%	87.8	70.0-130	12/13/20 06:31	

LABORATORY CONTROL SAMPLE: R3603447-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	mg/kg	0.625	0.625	100	10.0-160	
Acrylonitrile	mg/kg	0.625	0.508	81.3	45.0-153	
Benzene	mg/kg	0.125	0.115	92.0	70.0-123	
Bromobenzene	mg/kg	0.125	0.116	92.8	73.0-121	
Bromodichloromethane	mg/kg	0.125	0.113	90.4	73.0-121	
Bromoform	mg/kg	0.125	0.129	103	64.0-132	
Bromomethane	mg/kg	0.125	0.128	102	56.0-147	
n-Butylbenzene	mg/kg	0.125	0.126	101	68.0-135	
sec-Butylbenzene	mg/kg	0.125	0.122	97.6	74.0-130	
tert-Butylbenzene	mg/kg	0.125	0.115	92.0	75.0-127	
Carbon tetrachloride	mg/kg	0.125	0.119	95.2	66.0-128	
Chlorobenzene	mg/kg	0.125	0.125	100	76.0-128	
Dibromochloromethane	mg/kg	0.125	0.116	92.8	74.0-127	
Chloroethane	mg/kg	0.125	0.115	92.0	61.0-134	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

LABORATORY CONTROL SAMPLE: R3603447-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	mg/kg	0.125	0.118	94.4	72.0-123	
Chloromethane	mg/kg	0.125	0.109	87.2	51.0-138	
2-Chlorotoluene	mg/kg	0.125	0.122	97.6	75.0-124	
4-Chlorotoluene	mg/kg	0.125	0.117	93.6	75.0-124	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.149	119	59.0-130	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.121	96.8	74.0-128	
Dibromomethane	mg/kg	0.125	0.129	103	75.0-122	
1,2-Dichlorobenzene	mg/kg	0.125	0.127	102	76.0-124	
1,3-Dichlorobenzene	mg/kg	0.125	0.128	102	76.0-125	
1,4-Dichlorobenzene	mg/kg	0.125	0.122	97.6	77.0-121	
Dichlorodifluoromethane	mg/kg	0.125	0.101	80.8	43.0-156	
1,1-Dichloroethane	mg/kg	0.125	0.124	99.2	70.0-127	
1,2-Dichloroethane	mg/kg	0.125	0.0962	77.0	65.0-131	
1,1-Dichloroethene	mg/kg	0.125	0.119	95.2	65.0-131	
cis-1,2-Dichloroethene	mg/kg	0.125	0.121	96.8	73.0-125	
trans-1,2-Dichloroethene	mg/kg	0.125	0.122	97.6	71.0-125	
1,2-Dichloropropane	mg/kg	0.125	0.112	89.6	74.0-125	
1,1-Dichloropropene	mg/kg	0.125	0.124	99.2	73.0-125	
1,3-Dichloropropane	mg/kg	0.125	0.126	101	80.0-125	
cis-1,3-Dichloropropene	mg/kg	0.125	0.125	100	76.0-127	
trans-1,3-Dichloropropene	mg/kg	0.125	0.117	93.6	73.0-127	
2,2-Dichloropropane	mg/kg	0.125	0.107	85.6	59.0-135	
Diisopropyl ether	mg/kg	0.125	0.110	88.0	60.0-136	
Ethylbenzene	mg/kg	0.125	0.126	101	74.0-126	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.132	106	57.0-150	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.134	107	72.0-127	
p-Isopropyltoluene	mg/kg	0.125	0.122	97.6	72.0-133	
2-Butanone (MEK)	mg/kg	0.625	0.619	99.0	30.0-160	
Methylene Chloride	mg/kg	0.125	0.115	92.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.592	94.7	56.0-143	
Methyl-tert-butyl ether	mg/kg	0.125	0.107	85.6	66.0-132	
Naphthalene	mg/kg	0.125	0.173	138	59.0-130	L0
n-Propylbenzene	mg/kg	0.125	0.116	92.8	74.0-126	
Styrene	mg/kg	0.125	0.125	100	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	0.114	91.2	68.0-128	
Tetrachloroethene	mg/kg	0.125	0.119	95.2	70.0-136	
Toluene	mg/kg	0.125	0.119	95.2	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	0.157	126	59.0-139	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.164	131	62.0-137	
1,1,1-Trichloroethane	mg/kg	0.125	0.123	98.4	69.0-126	
1,1,2-Trichloroethane	mg/kg	0.125	0.116	92.8	78.0-123	
Trichloroethene	mg/kg	0.125	0.129	103	76.0-126	
Trichlorofluoromethane	mg/kg	0.125	0.106	84.8	61.0-142	
1,2,3-Trichloropropane	mg/kg	0.125	0.117	93.6	67.0-129	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.118	94.4	73.0-127	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

LABORATORY CONTROL SAMPLE: R3603447-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	mg/kg	0.125	0.125	100	63.0-134	
Xylene (Total)	mg/kg	0.375	0.381	102	72.0-127	
Toluene-d8 (S)	%			100	75.0-131	
4-Bromofluorobenzene (S)	%			106	67.0-138	
1,2-Dichloroethane-d4 (S)	%			95.0	70.0-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3603447-3 R3603447-4

Parameter	Units	92510412003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Acetone	mg/kg	ND	41.0	41.0	462	460	1280	1280	10.0-160	0.434	E,MH
Acrylonitrile	mg/kg	ND	41.0	41.0	86.4	87.5	240	243	10.0-160	1.27	MH
Benzene	mg/kg	120	8.17	8.17	118	120	0.00	0.00	10.0-149	1.68	P6
Bromobenzene	mg/kg	ND	8.17	8.17	8.03	7.90	112	110	10.0-156	1.63	
Bromodichloromethane	mg/kg	ND	8.17	8.17	6.34	3.86	88.1	53.6	10.0-143	48.6	R1
Bromoform	mg/kg	ND	8.17	8.17	8.79	7.79	122	108	10.0-146	12.1	
Bromomethane	mg/kg	ND	8.17	8.17	8.28	7.94	115	110	10.0-149	4.19	
n-Butylbenzene	mg/kg	15.3	8.17	8.17	27.4	27.8	168	174	10.0-160	1.45	MH
sec-Butylbenzene	mg/kg	5.72	8.17	8.17	15.3	15.3	133	133	10.0-159	0.00	
tert-Butylbenzene	mg/kg	ND	8.17	8.17	8.38	8.26	116	115	10.0-156	1.44	
Carbon tetrachloride	mg/kg	ND	8.17	8.17	7.41	7.72	103	107	10.0-145	4.10	
Chlorobenzene	mg/kg	ND	8.17	8.17	8.46	7.80	118	108	10.0-152	8.12	
Dibromochloromethane	mg/kg	ND	8.17	8.17	8.49	8.04	118	112	10.0-146	5.44	
Chloroethane	mg/kg	ND	8.17	8.17	7.36	7.09	102	98.5	10.0-146	3.74	
Chloroform	mg/kg	ND	8.17	8.17	11.9	11.9	165	165	10.0-146	0.00	MH
Chloromethane	mg/kg	ND	8.17	8.17	7.58	7.37	105	102	10.0-159	2.81	
2-Chlorotoluene	mg/kg	ND	8.17	8.17	8.31	8.11	115	113	10.0-159	2.44	
4-Chlorotoluene	mg/kg	ND	8.17	8.17	8.23	8.24	114	114	10.0-155	0.121	
1,2-Dibromo-3-chloropropane	mg/kg	ND	8.17	8.17	10.3	9.68	143	134	10.0-151	6.21	
1,2-Dibromoethane (EDB)	mg/kg	ND	8.17	8.17	8.66	8.14	120	113	10.0-148	6.19	
Dibromomethane	mg/kg	ND	8.17	8.17	7.73	7.61	107	106	10.0-147	1.56	
1,2-Dichlorobenzene	mg/kg	ND	8.17	8.17	8.70	8.85	121	123	10.0-155	1.71	
1,3-Dichlorobenzene	mg/kg	ND	8.17	8.17	8.69	8.93	121	124	10.0-153	2.72	
1,4-Dichlorobenzene	mg/kg	ND	8.17	8.17	7.89	8.02	110	111	10.0-151	1.63	
Dichlorodifluoromethane	mg/kg	ND	8.17	8.17	8.10	7.50	113	104	10.0-160	7.69	
1,1-Dichloroethane	mg/kg	ND	8.17	8.17	9.10	7.47	126	104	10.0-147	19.7	
1,2-Dichloroethane	mg/kg	ND	8.17	8.17	5.41	5.48	75.1	76.1	10.0-148	1.29	
1,1-Dichloroethene	mg/kg	ND	8.17	8.17	7.59	7.54	105	105	10.0-155	0.661	
cis-1,2-Dichloroethene	mg/kg	ND	8.17	8.17	7.86	7.86	109	109	10.0-149	0.00	
trans-1,2-Dichloroethene	mg/kg	ND	8.17	8.17	7.06	7.08	98.1	98.3	10.0-150	0.283	
1,2-Dichloropropane	mg/kg	ND	8.17	8.17	9.18	9.59	128	133	10.0-148	4.37	
1,1-Dichloropropene	mg/kg	ND	8.17	8.17	7.82	7.54	109	105	10.0-153	3.65	
1,3-Dichloropropane	mg/kg	ND	8.17	8.17	8.99	8.47	125	118	10.0-154	5.96	
cis-1,3-Dichloropropene	mg/kg	ND	8.17	8.17	6.92	7.07	96.1	98.2	10.0-151	2.14	
trans-1,3-Dichloropropene	mg/kg	ND	8.17	8.17	8.33	7.62	116	106	10.0-148	8.90	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3603447-3 R3603447-4

Parameter	Units	92510412003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
2,2-Dichloropropane	mg/kg	ND	8.17	8.17	4.00	4.85	55.6	67.4	10.0-138	19.2	
Diisopropyl ether	mg/kg	ND	8.17	8.17	8.24	8.61	114	120	10.0-147	4.39	
Ethylbenzene	mg/kg	243	8.17	8.17	264	237	292	0.00	10.0-160	10.8	E,P6
Hexachloro-1,3-butadiene	mg/kg	ND	8.17	8.17	9.51	9.43	132	131	10.0-160	0.845	
Isopropylbenzene (Cumene)	mg/kg	19.3	8.17	8.17	32.5	28.7	183	131	10.0-155	12.4	MH
p-Isopropyltoluene	mg/kg	3.49	8.17	8.17	14.0	12.9	146	131	10.0-160	8.18	
2-Butanone (MEK)	mg/kg	ND	41.0	41.0	419	63.5	1160	176	10.0-160	147	MH,R1
Methylene Chloride	mg/kg	ND	8.17	8.17	6.68	7.06	92.8	98.1	10.0-141	5.53	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	41.0	41.0	46.5	33.7	129	93.6	10.0-160	31.9	
Methyl-tert-butyl ether	mg/kg	ND	8.17	8.17	5.92	7.08	82.2	98.3	11.0-147	17.8	
Naphthalene	mg/kg	85.2	8.17	8.17	103	106	247	289	10.0-160	2.87	P6
n-Propylbenzene	mg/kg	85.9	8.17	8.17	91.3	91.2	75.0	73.6	10.0-158	0.110	
Styrene	mg/kg	ND	8.17	8.17	9.17	10.1	127	140	10.0-160	9.65	
1,1,1,2-Tetrachloroethane	mg/kg	ND	8.17	8.17	7.99	7.51	111	104	10.0-149	6.19	
1,1,2,2-Tetrachloroethane	mg/kg	ND	8.17	8.17	6.77	7.52	94.0	104	10.0-160	10.5	
Tetrachloroethene	mg/kg	ND	8.17	8.17	8.56	7.79	119	108	10.0-156	9.42	
Toluene	mg/kg	562	8.17	8.17	623	558	847	0.00	10.0-156	11.0	E,P6
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	8.17	8.17	8.92	8.59	124	119	10.0-160	3.77	
1,2,3-Trichlorobenzene	mg/kg	ND	8.17	8.17	12.3	13.0	171	181	10.0-160	5.53	MH
1,2,4-Trichlorobenzene	mg/kg	ND	8.17	8.17	12.3	12.9	171	179	10.0-160	4.76	MH
1,1,1-Trichloroethane	mg/kg	ND	8.17	8.17	8.30	9.44	115	131	10.0-144	12.9	
1,1,2-Trichloroethane	mg/kg	ND	8.17	8.17	15.6	14.2	217	197	10.0-160	9.40	MH
Trichloroethene	mg/kg	ND	8.17	8.17	8.18	8.19	114	114	10.0-156	0.122	
Trichlorofluoromethane	mg/kg	ND	8.17	8.17	8.11	7.82	113	109	10.0-160	3.64	
1,2,3-Trichloropropane	mg/kg	ND	8.17	8.17	7.62	7.75	106	108	10.0-156	1.69	
1,3,5-Trimethylbenzene	mg/kg	120	8.17	8.17	140	140	278	278	10.0-160	0.00	P6
Vinyl chloride	mg/kg	ND	8.17	8.17	8.10	7.66	113	106	10.0-160	5.58	
Xylene (Total)	mg/kg	1120	24.6	24.6	1230	1110	509	0.00	10.0-160	10.3	P6
Toluene-d8 (S)	%						112	104	75.0-131		
4-Bromofluorobenzene (S)	%						110	96.9	67.0-138		
1,2-Dichloroethane-d4 (S)	%						96.3	96.9	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1591977 | Analysis Method: EPA 8260D
QC Batch Method: 5035A | Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

METHOD BLANK: R3603727-3 Matrix: Solid
Associated Lab Samples: 92510412001, 92510412002, 92510412003, 92510412004, 92510412005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/kg	ND	0.00250	12/15/20 11:10	
Toluene	mg/kg	ND	0.00500	12/15/20 11:10	
1,2,3-Trimethylbenzene	mg/kg	ND	0.00500	12/15/20 11:10	
1,2,4-Trimethylbenzene	mg/kg	ND	0.00500	12/15/20 11:10	
Xylene (Total)	mg/kg	ND	0.00650	12/15/20 11:10	
Toluene-d8 (S)	%	106	75.0-131	12/15/20 11:10	
4-Bromofluorobenzene (S)	%	98.4	67.0-138	12/15/20 11:10	
1,2-Dichloroethane-d4 (S)	%	108	70.0-130	12/15/20 11:10	

LABORATORY CONTROL SAMPLE & LCSD: R3603727-1 R3603727-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethylbenzene	mg/kg	0.125	0.128	0.128	102	102	74.0-126	0.00	20	
Toluene	mg/kg	0.125	0.123	0.127	98.4	102	75.0-121	3.20	20	
1,2,3-Trimethylbenzene	mg/kg	0.125	0.127	0.125	102	100	74.0-124	1.59	20	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.132	0.133	106	106	70.0-126	0.755	20	
Xylene (Total)	mg/kg	0.375	0.416	0.398	111	106	72.0-127	4.42	20	
Toluene-d8 (S)	%				98.8	103	75.0-131			
4-Bromofluorobenzene (S)	%				102	97.2	67.0-138			
1,2-Dichloroethane-d4 (S)	%				115	105	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1591297
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92510412001

METHOD BLANK: R3603439-1 Matrix: Solid
Associated Lab Samples: 92510412001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	ND		12/14/20 07:38	

LABORATORY CONTROL SAMPLE: R3603439-2

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

SAMPLE DUPLICATE: R3603439-3

Parameter	Units	L1295012-10 Result	Dup Result	RPD	Qualifiers
Total Solids	%	79.8	80.1	0.386	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: L1-2020-2448
Pace Project No.: 92510412

QC Batch: 1591298
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510412003, 92510412004

METHOD BLANK: R3603588-1 Matrix: Solid
Associated Lab Samples: 92510412003, 92510412004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		12/14/20 11:40	

LABORATORY CONTROL SAMPLE: R3603588-2

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

SAMPLE DUPLICATE: R3603588-3

Parameter	Units	L1295700-02 Result	Dup Result	RPD	Qualifiers
Total Solids	%	87.5	88.4	0.974	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: L1-2020-2448
Pace Project No.: 92510412

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

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.
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.
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1-2020-2448
Pace Project No.: 92510412

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92510412001	**225-B**	MADEPV	1590860	MADEP VPH	1590860
92510412002	**250-B**	MADEPV	1590860	MADEP VPH	1590860
92510412002	**250-B**	MADEPV	1591416	MADEP VPH	1591416
92510412003	**275-B**	MADEPV	1590860	MADEP VPH	1590860
92510412003	**275-B**	MADEPV	1591416	MADEP VPH	1591416
92510412004	**300-B**	MADEPV	1590860	MADEP VPH	1590860
92510412005	**325-B**	MADEPV	1590860	MADEP VPH	1590860
92510412001	**225-B**	5035A	1590587	EPA 8260D	1590587
92510412001	**225-B**	5035A	1591977	EPA 8260D	1591977
92510412002	**250-B**	5035A	1590587	EPA 8260D	1590587
92510412002	**250-B**	5035A	1591977	EPA 8260D	1591977
92510412003	**275-B**	5035A	1590587	EPA 8260D	1590587
92510412003	**275-B**	5035A	1591977	EPA 8260D	1591977
92510412004	**300-B**	5035A	1590587	EPA 8260D	1590587
92510412004	**300-B**	5035A	1591977	EPA 8260D	1591977
92510412005	**325-B**	5035A	1590587	EPA 8260D	1590587
92510412005	**325-B**	5035A	1591977	EPA 8260D	1591977
92510412001	**225-B**	SM 2540 G	1591297	SM 2540G	1591297
92510412003	**275-B**	SM 2540 G	1591298	SM 2540G	1591298
92510412004	**300-B**	SM 2540 G	1591298	SM 2540G	1591298

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical™

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

LAB **WO# : 92510412**

92510412

er Number or

.Y

Con

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: L1-2020-2448	State: NC / County/City: Huntersville Time Zone Collected: [✓] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Matt Fraioli	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): MF	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 (Expedite Charges Apply)	Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

** 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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOC 8260	Analyses: MADEP VPH	Lab Sample # / Comments
MF ~~175-B~~ 225-B	SL	G	12/08	1143				3	X	X	001
MF ~~200-B~~ 250-B	SL	G	12/08	1137				3	X	X	002
MF ~~225-B~~ 275-B	SL	G	12/08	1134				3	X	X	003
300-B	SL	G	12/08	1121				3	X	X	004
325-B	SL	G	12/08	1125				3	X	X	005

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:

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)

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

Lab Tracking #: 2538999

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 92706H

Cooler 1 Temp Upon Receipt: 1.1 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 1.0 oC

Comments:

Relinquished by/Company: (Signature) MF / Apex	Date/Time: 1421 12/08/20	Received by/Company: (Signature) CDH PACE HVL	Date/Time: 12/8/20 1421
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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) / NO

Page: _____ of: _____

Pace Analytical
www.paceLabs.com

Sample Receiving Non-Conformance Form (NCF)

Date: 12-8-20	Evaluated by: MC
Client: APEX	

WO#: 92510412

PM: AMB Due Date: 12/15/20

CLIENT: 92-APEX MOOR

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		Samples listed on COC do not match samples received (missing, additional, etc.)
X	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:

One of the vials of Sample 225-B is labeled as 250B. The time matches with sample 225B 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)
X	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:

Samples 250-B and 325-B ~~are missi~~ SO 12/8/20 have one vial that is empty. There is no dry weight.

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:

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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 M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506678

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, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506678

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	ADM	68	PAN
		SM 2540G	KDW	1	PAN
92506678014	**300-B**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	KDW	1	PAN
92506678015	**300-E**	MADEP VPH	ADM, BMB	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	KDW	1	PAN
92506678016	**325-W**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
92506678017	**325-B**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
92506678018	**325-E**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
92506678019	**350-W**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
92506678020	**350-B**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
92506678021	**350-E**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
92506678022	**375-W**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
92506678023	**375-B**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
92506678024	**375-E**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN
92506678025	**North Wall**	MADEP VPH	BMB	6	PAN
		EPA 8260D	ACG	68	PAN

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506678

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540G	KDW	1	PAN
92506678026	**South Wall**	MADEP VPH	ADM	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KDW	1	PAN

PAN = Pace National - Mt. Juliet

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**1930**	mg/kg	28.8	9.59	4	11/17/20 09:25	11/23/20 21:57		
Aliphatic (C09-C12)	**3820**	mg/kg	28.8	9.59	4	11/17/20 09:25	11/23/20 21:57		
Aromatic (C09-C10),Unadjusted	**1150**	mg/kg	144	47.9	20	11/17/20 09:25	11/27/20 11:31	TPHC9C10A	
Total VPH	**5750**	mg/kg	28.8	9.59	4	11/17/20 09:25	11/23/20 21:57	VPH	
Surrogates									
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	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet								
Acetone	**<1.47**	mg/kg	1.47	1.07	20	11/17/20 09:25	11/23/20 17:20	67-64-1	
Acrylonitrile	**<0.367**	mg/kg	0.367	0.106	20	11/17/20 09:25	11/23/20 17:20	107-13-1	
Benzene	**10.1**	mg/kg	0.0294	0.0137	20	11/17/20 09:25	11/23/20 17:20	71-43-2	
Bromobenzene	**<0.367**	mg/kg	0.367	0.0264	20	11/17/20 09:25	11/23/20 17:20	108-86-1	
Bromodichloromethane	**<0.0734**	mg/kg	0.0734	0.0213	20	11/17/20 09:25	11/23/20 17:20	75-27-4	
Bromoform	**<0.734**	mg/kg	0.734	0.0343	20	11/17/20 09:25	11/23/20 17:20	75-25-2	
Bromomethane	**<0.367**	mg/kg	0.367	0.0578	20	11/17/20 09:25	11/23/20 17:20	74-83-9	
n-Butylbenzene	**19.8**	mg/kg	0.367	0.154	20	11/17/20 09:25	11/23/20 17:20	104-51-8	
sec-Butylbenzene	**6.83**	mg/kg	0.367	0.0845	20	11/17/20 09:25	11/23/20 17:20	135-98-8	
tert-Butylbenzene	**<0.147**	mg/kg	0.147	0.0572	20	11/17/20 09:25	11/23/20 17:20	98-06-6	
Carbon tetrachloride	**<0.147**	mg/kg	0.147	0.0264	20	11/17/20 09:25	11/23/20 17:20	56-23-5	
Chlorobenzene	**0.308**	mg/kg	0.0734	0.00616	20	11/17/20 09:25	11/23/20 17:20	108-90-7	
Dibromochloromethane	**<0.0734**	mg/kg	0.0734	0.0179	20	11/17/20 09:25	11/23/20 17:20	124-48-1	
Chloroethane	**<0.147**	mg/kg	0.147	0.0499	20	11/17/20 09:25	11/23/20 17:20	75-00-3	
Chloroform	**<0.0734**	mg/kg	0.0734	0.0302	20	11/17/20 09:25	11/23/20 17:20	67-66-3	
Chloromethane	**<0.367**	mg/kg	0.367	0.128	20	11/17/20 09:25	11/23/20 17:20	74-87-3	
2-Chlorotoluene	**<0.0734**	mg/kg	0.0734	0.0254	20	11/17/20 09:25	11/23/20 17:20	95-49-8	
4-Chlorotoluene	**<0.147**	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	**<0.734**	mg/kg	0.734	0.114	20	11/17/20 09:25	11/23/20 17:20	96-12-8	
1,2-Dibromoethane (EDB)	**<0.0734**	mg/kg	0.0734	0.0191	20	11/17/20 09:25	11/23/20 17:20	106-93-4	
Dibromomethane	**<0.147**	mg/kg	0.147	0.0220	20	11/17/20 09:25	11/23/20 17:20	74-95-3	
1,2-Dichlorobenzene	**<0.147**	mg/kg	0.147	0.0125	20	11/17/20 09:25	11/23/20 17:20	95-50-1	
1,3-Dichlorobenzene	**<0.147**	mg/kg	0.147	0.0176	20	11/17/20 09:25	11/23/20 17:20	541-73-1	
1,4-Dichlorobenzene	**<0.147**	mg/kg	0.147	0.0205	20	11/17/20 09:25	11/23/20 17:20	106-46-7	
Dichlorodifluoromethane	**<0.0734**	mg/kg	0.0734	0.0473	20	11/17/20 09:25	11/23/20 17:20	75-71-8	
1,1-Dichloroethane	**<0.0734**	mg/kg	0.0734	0.0144	20	11/17/20 09:25	11/23/20 17:20	75-34-3	
1,2-Dichloroethane	**<0.0734**	mg/kg	0.0734	0.0191	20	11/17/20 09:25	11/23/20 17:20	107-06-2	
1,1-Dichloroethene	**<0.0734**	mg/kg	0.0734	0.0178	20	11/17/20 09:25	11/23/20 17:20	75-35-4	
cis-1,2-Dichloroethene	**<0.0734**	mg/kg	0.0734	0.0216	20	11/17/20 09:25	11/23/20 17:20	156-59-2	
trans-1,2-Dichloroethene	**<0.147**	mg/kg	0.147	0.0305	20	11/17/20 09:25	11/23/20 17:20	156-60-5	
1,2-Dichloropropane	**<0.147**	mg/kg	0.147	0.0417	20	11/17/20 09:25	11/23/20 17:20	78-87-5	
1,1-Dichloropropene	**<0.0734**	mg/kg	0.0734	0.0238	20	11/17/20 09:25	11/23/20 17:20	563-58-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	
Surrogates									
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	
VOA (GC/MS) 8260D	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**8490**	mg/kg	313	104	45.2	11/17/20 13:43	11/27/20 12:03		
Aliphatic (C09-C12)	**4310**	mg/kg	313	104	45.2	11/17/20 13:43	11/27/20 12:03		
Aromatic (C09-C10),Unadjusted	**1480**	mg/kg	313	104	45.2	11/17/20 13:43	11/27/20 12:03	TPHC9C10A	
Total VPH	**14300**	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	**<1.42**	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	**56.2**	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	**27.2**	mg/kg	0.356	0.149	20.2	11/17/20 13:43	11/23/20 17:39	104-51-8	
sec-Butylbenzene	**8.25**	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	**0.353**	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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**6790**	mg/kg	327	109	40	11/17/20 09:37	11/27/20 12:36		
Aliphatic (C09-C12)	**4680**	mg/kg	327	109	40	11/17/20 09:37	11/27/20 12:36		
Aromatic (C09-C10),Unadjusted	**1700**	mg/kg	327	109	40	11/17/20 09:37	11/27/20 12:36	TPHC9C10A	
Total VPH	**13200**	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	**49.1**	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	**25.4**	mg/kg	0.417	0.175	20	11/17/20 09:37	11/23/20 17:58	104-51-8	
sec-Butylbenzene	**10.6**	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	**0.395**	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**2470**	mg/kg	65.4	21.8	4	11/17/20 10:01	11/24/20 00:09		
Aliphatic (C09-C12)	**1160**	mg/kg	65.4	21.8	4	11/17/20 10:01	11/24/20 00:09		
Aromatic (C09-C10),Unadjusted	**696**	mg/kg	65.4	21.8	4	11/17/20 10:01	11/24/20 00:09	TPHC9C10A	
Total VPH	**4330**	mg/kg	65.4	21.8	4	11/17/20 10:01	11/24/20 00:09	VPH	
Surrogates									
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	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet								
Acetone	**<3.65**	mg/kg	3.65	2.66	26.4	11/17/20 10:01	11/23/20 18:17	67-64-1	
Acrylonitrile	**<0.912**	mg/kg	0.912	0.263	26.4	11/17/20 10:01	11/23/20 18:17	107-13-1	
Benzene	**9.34**	mg/kg	0.0730	0.0340	26.4	11/17/20 10:01	11/23/20 18:17	71-43-2	
Bromobenzene	**<0.912**	mg/kg	0.912	0.0658	26.4	11/17/20 10:01	11/23/20 18:17	108-86-1	
Bromodichloromethane	**<0.182**	mg/kg	0.182	0.0528	26.4	11/17/20 10:01	11/23/20 18:17	75-27-4	
Bromoform	**<1.82**	mg/kg	1.82	0.0854	26.4	11/17/20 10:01	11/23/20 18:17	75-25-2	
Bromomethane	**<0.912**	mg/kg	0.912	0.144	26.4	11/17/20 10:01	11/23/20 18:17	74-83-9	
n-Butylbenzene	**3.93**	mg/kg	0.912	0.384	26.4	11/17/20 10:01	11/23/20 18:17	104-51-8	
sec-Butylbenzene	**1.21**	mg/kg	0.912	0.210	26.4	11/17/20 10:01	11/23/20 18:17	135-98-8	
tert-Butylbenzene	**<0.365**	mg/kg	0.365	0.142	26.4	11/17/20 10:01	11/23/20 18:17	98-06-6	
Carbon tetrachloride	**<0.365**	mg/kg	0.365	0.0655	26.4	11/17/20 10:01	11/23/20 18:17	56-23-5	
Chlorobenzene	**<0.182**	mg/kg	0.182	0.0153	26.4	11/17/20 10:01	11/23/20 18:17	108-90-7	
Dibromochloromethane	**<0.182**	mg/kg	0.182	0.0448	26.4	11/17/20 10:01	11/23/20 18:17	124-48-1	
Chloroethane	**<0.365**	mg/kg	0.365	0.124	26.4	11/17/20 10:01	11/23/20 18:17	75-00-3	
Chloroform	**<0.182**	mg/kg	0.182	0.0752	26.4	11/17/20 10:01	11/23/20 18:17	67-66-3	
Chloromethane	**<0.912**	mg/kg	0.912	0.318	26.4	11/17/20 10:01	11/23/20 18:17	74-87-3	
2-Chlorotoluene	**<0.182**	mg/kg	0.182	0.0630	26.4	11/17/20 10:01	11/23/20 18:17	95-49-8	
4-Chlorotoluene	**<0.365**	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	**<1.82**	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)	**<0.182**	mg/kg	0.182	0.0473	26.4	11/17/20 10:01	11/23/20 18:17	106-93-4	
Dibromomethane	**<0.365**	mg/kg	0.365	0.0547	26.4	11/17/20 10:01	11/23/20 18:17	74-95-3	
1,2-Dichlorobenzene	**<0.365**	mg/kg	0.365	0.0310	26.4	11/17/20 10:01	11/23/20 18:17	95-50-1	
1,3-Dichlorobenzene	**<0.365**	mg/kg	0.365	0.0437	26.4	11/17/20 10:01	11/23/20 18:17	541-73-1	
1,4-Dichlorobenzene	**<0.365**	mg/kg	0.365	0.0511	26.4	11/17/20 10:01	11/23/20 18:17	106-46-7	
Dichlorodifluoromethane	**<0.182**	mg/kg	0.182	0.117	26.4	11/17/20 10:01	11/23/20 18:17	75-71-8	
1,1-Dichloroethane	**<0.182**	mg/kg	0.182	0.0359	26.4	11/17/20 10:01	11/23/20 18:17	75-34-3	
1,2-Dichloroethane	**<0.182**	mg/kg	0.182	0.0473	26.4	11/17/20 10:01	11/23/20 18:17	107-06-2	
1,1-Dichloroethene	**<0.182**	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	**<0.182**	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	**<0.365**	mg/kg	0.365	0.0760	26.4	11/17/20 10:01	11/23/20 18:17	156-60-5	
1,2-Dichloropropane	**<0.365**	mg/kg	0.365	0.104	26.4	11/17/20 10:01	11/23/20 18:17	78-87-5	
1,1-Dichloropropene	**<0.182**	mg/kg	0.182	0.0592	26.4	11/17/20 10:01	11/23/20 18:17	563-58-6	
1,3-Dichloropropane	**<0.365**	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	**<0.182**	mg/kg	0.182	0.0553	26.4	11/17/20 10:01	11/23/20 18:17	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**8610**	mg/kg	361	120	46.4	11/17/20 10:13	11/27/20 13:42		
Aliphatic (C09-C12)	**6250**	mg/kg	361	120	46.4	11/17/20 10:13	11/27/20 13:42		
Aromatic (C09-C10),Unadjusted	**2180**	mg/kg	361	120	46.4	11/17/20 10:13	11/27/20 13:42	TPHC9C10A	
Total VPH	**17100**	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	**64.0**	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	**24.3**	mg/kg	0.464	0.195	24	11/17/20 10:13	11/23/20 18:55	104-51-8	
sec-Butylbenzene	**9.09**	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	**0.391**	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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**409**	mg/kg	7.39	2.47	1	11/17/20 10:26	11/24/20 02:55		
Aliphatic (C09-C12)	**656**	mg/kg	7.39	2.47	1	11/17/20 10:26	11/24/20 02:55		
Aromatic (C09-C10),Unadjusted	**241**	mg/kg	29.6	9.84	4	11/17/20 10:26	11/27/20 14:15	TPHC9C10A	
Total VPH	**1070**	mg/kg	7.39	2.47	1	11/17/20 10:26	11/24/20 02:55	VPH	
Surrogates									
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	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet								
Acetone	**1.13**	mg/kg	0.0737	0.0538	1	11/17/20 10:26	11/23/20 16:05	67-64-1	
Acrylonitrile	**<0.0184**	mg/kg	0.0184	0.00532	1	11/17/20 10:26	11/23/20 16:05	107-13-1	
Benzene	**1.33**	mg/kg	0.00147	0.000689	1	11/17/20 10:26	11/23/20 16:05	71-43-2	
Bromobenzene	**<0.0184**	mg/kg	0.0184	0.00133	1	11/17/20 10:26	11/23/20 16:05	108-86-1	
Bromodichloromethane	**<0.00369**	mg/kg	0.00369	0.00107	1	11/17/20 10:26	11/23/20 16:05	75-27-4	
Bromoform	**<0.0369**	mg/kg	0.0369	0.00173	1	11/17/20 10:26	11/23/20 16:05	75-25-2	
Bromomethane	**<0.0184**	mg/kg	0.0184	0.00290	1	11/17/20 10:26	11/23/20 16:05	74-83-9	
n-Butylbenzene	**0.0503**	mg/kg	0.0184	0.00774	1	11/17/20 10:26	11/23/20 16:05	104-51-8	
sec-Butylbenzene	**0.0181J**	mg/kg	0.0184	0.00425	1	11/17/20 10:26	11/23/20 16:05	135-98-8	J
tert-Butylbenzene	**<0.00737**	mg/kg	0.00737	0.00288	1	11/17/20 10:26	11/23/20 16:05	98-06-6	
Carbon tetrachloride	**<0.00737**	mg/kg	0.00737	0.00132	1	11/17/20 10:26	11/23/20 16:05	56-23-5	
Chlorobenzene	**<0.00369**	mg/kg	0.00369	0.000310	1	11/17/20 10:26	11/23/20 16:05	108-90-7	
Dibromochloromethane	**<0.00369**	mg/kg	0.00369	0.000902	1	11/17/20 10:26	11/23/20 16:05	124-48-1	
Chloroethane	**<0.00737**	mg/kg	0.00737	0.00251	1	11/17/20 10:26	11/23/20 16:05	75-00-3	
Chloroform	**<0.00369**	mg/kg	0.00369	0.00152	1	11/17/20 10:26	11/23/20 16:05	67-66-3	
Chloromethane	**<0.0184**	mg/kg	0.0184	0.00641	1	11/17/20 10:26	11/23/20 16:05	74-87-3	
2-Chlorotoluene	**<0.00369**	mg/kg	0.00369	0.00128	1	11/17/20 10:26	11/23/20 16:05	95-49-8	
4-Chlorotoluene	**<0.00737**	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	**<0.0369**	mg/kg	0.0369	0.00575	1	11/17/20 10:26	11/23/20 16:05	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00369**	mg/kg	0.00369	0.000955	1	11/17/20 10:26	11/23/20 16:05	106-93-4	
Dibromomethane	**<0.00737**	mg/kg	0.00737	0.00111	1	11/17/20 10:26	11/23/20 16:05	74-95-3	
1,2-Dichlorobenzene	**<0.00737**	mg/kg	0.00737	0.000627	1	11/17/20 10:26	11/23/20 16:05	95-50-1	
1,3-Dichlorobenzene	**<0.00737**	mg/kg	0.00737	0.000885	1	11/17/20 10:26	11/23/20 16:05	541-73-1	
1,4-Dichlorobenzene	**<0.00737**	mg/kg	0.00737	0.00103	1	11/17/20 10:26	11/23/20 16:05	106-46-7	
Dichlorodifluoromethane	**<0.00369**	mg/kg	0.00369	0.00237	1	11/17/20 10:26	11/23/20 16:05	75-71-8	
1,1-Dichloroethane	**<0.00369**	mg/kg	0.00369	0.000724	1	11/17/20 10:26	11/23/20 16:05	75-34-3	
1,2-Dichloroethane	**<0.00369**	mg/kg	0.00369	0.000957	1	11/17/20 10:26	11/23/20 16:05	107-06-2	
1,1-Dichloroethene	**<0.00369**	mg/kg	0.00369	0.000893	1	11/17/20 10:26	11/23/20 16:05	75-35-4	
cis-1,2-Dichloroethene	**<0.00369**	mg/kg	0.00369	0.00108	1	11/17/20 10:26	11/23/20 16:05	156-59-2	
trans-1,2-Dichloroethene	**<0.00737**	mg/kg	0.00737	0.00153	1	11/17/20 10:26	11/23/20 16:05	156-60-5	
1,2-Dichloropropane	**<0.00737**	mg/kg	0.00737	0.00209	1	11/17/20 10:26	11/23/20 16:05	78-87-5	
1,1-Dichloropropene	**<0.00369**	mg/kg	0.00369	0.00119	1	11/17/20 10:26	11/23/20 16:05	563-58-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**10.6**	mg/kg	8.19	2.74	1	11/17/20 13:59	11/24/20 04:01		
Aliphatic (C09-C12)	**7.65J**	mg/kg	8.19	2.74	1	11/17/20 13:59	11/24/20 04:01		J
Aromatic (C09-C10),Unadjusted	**4.10J**	mg/kg	8.19	2.74	1	11/17/20 13:59	11/24/20 04:01	TPHC9C10A	J
Total VPH	**22.3**	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	**0.0871**	mg/kg	0.0852	0.0622	1.06	11/17/20 13:59	11/23/20 16:24	67-64-1	
Acrylonitrile	**<0.0214**	mg/kg	0.0214	0.00616	1.06	11/17/20 13:59	11/23/20 16:24	107-13-1	
Benzene	**1.08**	mg/kg	0.00170	0.000796	1.06	11/17/20 13:59	11/23/20 16:24	71-43-2	
Bromobenzene	**<0.0214**	mg/kg	0.0214	0.00153	1.06	11/17/20 13:59	11/23/20 16:24	108-86-1	
Bromodichloromethane	**<0.00426**	mg/kg	0.00426	0.00124	1.06	11/17/20 13:59	11/23/20 16:24	75-27-4	
Bromoform	**<0.0426**	mg/kg	0.0426	0.00199	1.06	11/17/20 13:59	11/23/20 16:24	75-25-2	
Bromomethane	**<0.0214**	mg/kg	0.0214	0.00336	1.06	11/17/20 13:59	11/23/20 16:24	74-83-9	
n-Butylbenzene	**<0.0214**	mg/kg	0.0214	0.00894	1.06	11/17/20 13:59	11/23/20 16:24	104-51-8	
sec-Butylbenzene	**<0.0214**	mg/kg	0.0214	0.00490	1.06	11/17/20 13:59	11/23/20 16:24	135-98-8	
tert-Butylbenzene	**<0.00852**	mg/kg	0.00852	0.00333	1.06	11/17/20 13:59	11/23/20 16:24	98-06-6	
Carbon tetrachloride	**<0.00852**	mg/kg	0.00852	0.00153	1.06	11/17/20 13:59	11/23/20 16:24	56-23-5	
Chlorobenzene	**<0.00426**	mg/kg	0.00426	0.000358	1.06	11/17/20 13:59	11/23/20 16:24	108-90-7	
Dibromochloromethane	**<0.00426**	mg/kg	0.00426	0.00104	1.06	11/17/20 13:59	11/23/20 16:24	124-48-1	
Chloroethane	**<0.00852**	mg/kg	0.00852	0.00289	1.06	11/17/20 13:59	11/23/20 16:24	75-00-3	
Chloroform	**<0.00426**	mg/kg	0.00426	0.00175	1.06	11/17/20 13:59	11/23/20 16:24	67-66-3	
Chloromethane	**<0.0214**	mg/kg	0.0214	0.00741	1.06	11/17/20 13:59	11/23/20 16:24	74-87-3	
2-Chlorotoluene	**<0.00426**	mg/kg	0.00426	0.00147	1.06	11/17/20 13:59	11/23/20 16:24	95-49-8	
4-Chlorotoluene	**<0.00852**	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	**<0.0426**	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)	**<0.00426**	mg/kg	0.00426	0.00110	1.06	11/17/20 13:59	11/23/20 16:24	106-93-4	
Dibromomethane	**<0.00852**	mg/kg	0.00852	0.00128	1.06	11/17/20 13:59	11/23/20 16:24	74-95-3	
1,2-Dichlorobenzene	**<0.00852**	mg/kg	0.00852	0.000725	1.06	11/17/20 13:59	11/23/20 16:24	95-50-1	
1,3-Dichlorobenzene	**<0.00852**	mg/kg	0.00852	0.00102	1.06	11/17/20 13:59	11/23/20 16:24	541-73-1	
1,4-Dichlorobenzene	**<0.00852**	mg/kg	0.00852	0.00119	1.06	11/17/20 13:59	11/23/20 16:24	106-46-7	
Dichlorodifluoromethane	**<0.00426**	mg/kg	0.00426	0.00275	1.06	11/17/20 13:59	11/23/20 16:24	75-71-8	
1,1-Dichloroethane	**<0.00426**	mg/kg	0.00426	0.000836	1.06	11/17/20 13:59	11/23/20 16:24	75-34-3	
1,2-Dichloroethane	**<0.00426**	mg/kg	0.00426	0.00111	1.06	11/17/20 13:59	11/23/20 16:24	107-06-2	
1,1-Dichloroethene	**<0.00426**	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	**<0.00426**	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	**<0.00852**	mg/kg	0.00852	0.00177	1.06	11/17/20 13:59	11/23/20 16:24	156-60-5	
1,2-Dichloropropane	**<0.00852**	mg/kg	0.00852	0.00243	1.06	11/17/20 13:59	11/23/20 16:24	78-87-5	
1,1-Dichloropropene	**<0.00426**	mg/kg	0.00426	0.00138	1.06	11/17/20 13:59	11/23/20 16:24	563-58-6	
1,3-Dichloropropane	**<0.00852**	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	**<0.00426**	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	**<7.91**	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	
Surrogates									
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	
VOA (GC/MS) 8260D	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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**4.77J**	mg/kg	10.7	3.55	1.42	11/17/20 14:04	12/01/20 09:19		J
Aliphatic (C09-C12)	**3.86J**	mg/kg	10.7	3.55	1.42	11/17/20 14:04	12/01/20 09:19		J
Aromatic (C09-C10),Unadjusted	**<10.7**	mg/kg	10.7	3.55	1.42	11/17/20 14:04	11/24/20 16:28	TPHC9C10A	
Total VPH	**8.63J**	mg/kg	10.7	3.55	1.42	11/17/20 14:04	12/01/20 09:19	VPH	J
Surrogates									
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	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet								
Acetone	**0.0656J**	mg/kg	0.0873	0.0638	1.12	11/17/20 14:04	11/23/20 17:01	67-64-1	J
Acrylonitrile	**<0.0218**	mg/kg	0.0218	0.00630	1.12	11/17/20 14:04	11/23/20 17:01	107-13-1	
Benzene	**0.550**	mg/kg	0.00175	0.000815	1.12	11/17/20 14:04	11/23/20 17:01	71-43-2	
Bromobenzene	**<0.0218**	mg/kg	0.0218	0.00157	1.12	11/17/20 14:04	11/23/20 17:01	108-86-1	
Bromodichloromethane	**<0.00437**	mg/kg	0.00437	0.00127	1.12	11/17/20 14:04	11/23/20 17:01	75-27-4	
Bromoform	**<0.0437**	mg/kg	0.0437	0.00204	1.12	11/17/20 14:04	11/23/20 17:01	75-25-2	
Bromomethane	**<0.0218**	mg/kg	0.0218	0.00345	1.12	11/17/20 14:04	11/23/20 17:01	74-83-9	
n-Butylbenzene	**<0.0218**	mg/kg	0.0218	0.00917	1.12	11/17/20 14:04	11/23/20 17:01	104-51-8	
sec-Butylbenzene	**<0.0218**	mg/kg	0.0218	0.00504	1.12	11/17/20 14:04	11/23/20 17:01	135-98-8	
tert-Butylbenzene	**<0.00873**	mg/kg	0.00873	0.00340	1.12	11/17/20 14:04	11/23/20 17:01	98-06-6	
Carbon tetrachloride	**<0.00873**	mg/kg	0.00873	0.00157	1.12	11/17/20 14:04	11/23/20 17:01	56-23-5	
Chlorobenzene	**<0.00437**	mg/kg	0.00437	0.000366	1.12	11/17/20 14:04	11/23/20 17:01	108-90-7	
Dibromochloromethane	**<0.00437**	mg/kg	0.00437	0.00107	1.12	11/17/20 14:04	11/23/20 17:01	124-48-1	
Chloroethane	**<0.00873**	mg/kg	0.00873	0.00296	1.12	11/17/20 14:04	11/23/20 17:01	75-00-3	
Chloroform	**<0.00437**	mg/kg	0.00437	0.00179	1.12	11/17/20 14:04	11/23/20 17:01	67-66-3	
Chloromethane	**<0.0218**	mg/kg	0.0218	0.00759	1.12	11/17/20 14:04	11/23/20 17:01	74-87-3	
2-Chlorotoluene	**<0.00437**	mg/kg	0.00437	0.00151	1.12	11/17/20 14:04	11/23/20 17:01	95-49-8	
4-Chlorotoluene	**<0.00873**	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	**<0.0437**	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)	**<0.00437**	mg/kg	0.00437	0.00113	1.12	11/17/20 14:04	11/23/20 17:01	106-93-4	
Dibromomethane	**<0.00873**	mg/kg	0.00873	0.00131	1.12	11/17/20 14:04	11/23/20 17:01	74-95-3	
1,2-Dichlorobenzene	**<0.00873**	mg/kg	0.00873	0.000742	1.12	11/17/20 14:04	11/23/20 17:01	95-50-1	
1,3-Dichlorobenzene	**<0.00873**	mg/kg	0.00873	0.00105	1.12	11/17/20 14:04	11/23/20 17:01	541-73-1	
1,4-Dichlorobenzene	**<0.00873**	mg/kg	0.00873	0.00122	1.12	11/17/20 14:04	11/23/20 17:01	106-46-7	
Dichlorodifluoromethane	**<0.00437**	mg/kg	0.00437	0.00281	1.12	11/17/20 14:04	11/23/20 17:01	75-71-8	
1,1-Dichloroethane	**<0.00437**	mg/kg	0.00437	0.000857	1.12	11/17/20 14:04	11/23/20 17:01	75-34-3	
1,2-Dichloroethane	**<0.00437**	mg/kg	0.00437	0.00113	1.12	11/17/20 14:04	11/23/20 17:01	107-06-2	
1,1-Dichloroethene	**<0.00437**	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	**<0.00437**	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	**<0.00873**	mg/kg	0.00873	0.00181	1.12	11/17/20 14:04	11/23/20 17:01	156-60-5	
1,2-Dichloropropane	**<0.00873**	mg/kg	0.00873	0.00248	1.12	11/17/20 14:04	11/23/20 17:01	78-87-5	
1,1-Dichloropropene	**<0.00437**	mg/kg	0.00437	0.00141	1.12	11/17/20 14:04	11/23/20 17:01	563-58-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**3.21J**	mg/kg	9.48	3.15	1.27	11/17/20 11:14	11/24/20 18:40		J
Aliphatic (C09-C12)	**<9.48**	mg/kg	9.48	3.15	1.27	11/17/20 11:14	11/24/20 18:40		
Aromatic (C09-C10),Unadjusted	**<9.48**	mg/kg	9.48	3.15	1.27	11/17/20 11:14	11/24/20 18:40	TPHC9C10A	
Total VPH	**3.21J**	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	**<0.0776**	mg/kg	0.0776	0.0566	1	11/17/20 11:14	11/24/20 01:33	67-64-1	
Acrylonitrile	**<0.0194**	mg/kg	0.0194	0.00560	1	11/17/20 11:14	11/24/20 01:33	107-13-1	
Benzene	**0.0379**	mg/kg	0.00155	0.000725	1	11/17/20 11:14	11/24/20 01:33	71-43-2	
Bromobenzene	**<0.0194**	mg/kg	0.0194	0.00140	1	11/17/20 11:14	11/24/20 01:33	108-86-1	
Bromodichloromethane	**<0.00388**	mg/kg	0.00388	0.00112	1	11/17/20 11:14	11/24/20 01:33	75-27-4	
Bromoform	**<0.0388**	mg/kg	0.0388	0.00182	1	11/17/20 11:14	11/24/20 01:33	75-25-2	
Bromomethane	**<0.0194**	mg/kg	0.0194	0.00306	1	11/17/20 11:14	11/24/20 01:33	74-83-9	
n-Butylbenzene	**<0.0194**	mg/kg	0.0194	0.00815	1	11/17/20 11:14	11/24/20 01:33	104-51-8	
sec-Butylbenzene	**<0.0194**	mg/kg	0.0194	0.00447	1	11/17/20 11:14	11/24/20 01:33	135-98-8	
tert-Butylbenzene	**<0.00776**	mg/kg	0.00776	0.00303	1	11/17/20 11:14	11/24/20 01:33	98-06-6	
Carbon tetrachloride	**<0.00776**	mg/kg	0.00776	0.00139	1	11/17/20 11:14	11/24/20 01:33	56-23-5	
Chlorobenzene	**<0.00388**	mg/kg	0.00388	0.000326	1	11/17/20 11:14	11/24/20 01:33	108-90-7	
Dibromochloromethane	**<0.00388**	mg/kg	0.00388	0.000950	1	11/17/20 11:14	11/24/20 01:33	124-48-1	
Chloroethane	**<0.00776**	mg/kg	0.00776	0.00264	1	11/17/20 11:14	11/24/20 01:33	75-00-3	
Chloroform	**<0.00388**	mg/kg	0.00388	0.00160	1	11/17/20 11:14	11/24/20 01:33	67-66-3	
Chloromethane	**<0.0194**	mg/kg	0.0194	0.00675	1	11/17/20 11:14	11/24/20 01:33	74-87-3	
2-Chlorotoluene	**<0.00388**	mg/kg	0.00388	0.00134	1	11/17/20 11:14	11/24/20 01:33	95-49-8	
4-Chlorotoluene	**<0.00776**	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	**<0.0388**	mg/kg	0.0388	0.00605	1	11/17/20 11:14	11/24/20 01:33	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00388**	mg/kg	0.00388	0.00101	1	11/17/20 11:14	11/24/20 01:33	106-93-4	
Dibromomethane	**<0.00776**	mg/kg	0.00776	0.00116	1	11/17/20 11:14	11/24/20 01:33	74-95-3	
1,2-Dichlorobenzene	**<0.00776**	mg/kg	0.00776	0.000659	1	11/17/20 11:14	11/24/20 01:33	95-50-1	
1,3-Dichlorobenzene	**<0.00776**	mg/kg	0.00776	0.000931	1	11/17/20 11:14	11/24/20 01:33	541-73-1	
1,4-Dichlorobenzene	**<0.00776**	mg/kg	0.00776	0.00109	1	11/17/20 11:14	11/24/20 01:33	106-46-7	
Dichlorodifluoromethane	**<0.00388**	mg/kg	0.00388	0.00250	1	11/17/20 11:14	11/24/20 01:33	75-71-8	
1,1-Dichloroethane	**<0.00388**	mg/kg	0.00388	0.000762	1	11/17/20 11:14	11/24/20 01:33	75-34-3	
1,2-Dichloroethane	**<0.00388**	mg/kg	0.00388	0.00101	1	11/17/20 11:14	11/24/20 01:33	107-06-2	
1,1-Dichloroethene	**<0.00388**	mg/kg	0.00388	0.000940	1	11/17/20 11:14	11/24/20 01:33	75-35-4	
cis-1,2-Dichloroethene	**<0.00388**	mg/kg	0.00388	0.00114	1	11/17/20 11:14	11/24/20 01:33	156-59-2	
trans-1,2-Dichloroethene	**<0.00776**	mg/kg	0.00776	0.00161	1	11/17/20 11:14	11/24/20 01:33	156-60-5	
1,2-Dichloropropane	**<0.00776**	mg/kg	0.00776	0.00220	1	11/17/20 11:14	11/24/20 01:33	78-87-5	
1,1-Dichloropropene	**<0.00388**	mg/kg	0.00388	0.00126	1	11/17/20 11:14	11/24/20 01:33	563-58-6	
1,3-Dichloropropane	**<0.00776**	mg/kg	0.00776	0.000777	1	11/17/20 11:14	11/24/20 01:33	142-28-9	
cis-1,3-Dichloropropene	**<0.00388**	mg/kg	0.00388	0.00117	1	11/17/20 11:14	11/24/20 01:33	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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	
Total Solids 2540 G-2011	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	
Surrogates									
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	
VOA (GC/MS) 8260D	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**4.45J**	mg/kg	8.76	2.92	1	11/17/20 11:20	11/24/20 20:53		J
Aliphatic (C09-C12)	**<8.76**	mg/kg	8.76	2.92	1	11/17/20 11:20	11/24/20 20:53		
Aromatic (C09-C10),Unadjusted	**<8.76**	mg/kg	8.76	2.92	1	11/17/20 11:20	11/24/20 20:53	TPHC9C10A	
Total VPH	**4.45J**	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	**<0.103**	mg/kg	0.103	0.0752	1.24	11/17/20 11:20	11/24/20 02:50	67-64-1	
Acrylonitrile	**<0.0257**	mg/kg	0.0257	0.00744	1.24	11/17/20 11:20	11/24/20 02:50	107-13-1	
Benzene	**0.00365**	mg/kg	0.00206	0.000961	1.24	11/17/20 11:20	11/24/20 02:50	71-43-2	
Bromobenzene	**<0.0257**	mg/kg	0.0257	0.00186	1.24	11/17/20 11:20	11/24/20 02:50	108-86-1	
Bromodichloromethane	**<0.00515**	mg/kg	0.00515	0.00149	1.24	11/17/20 11:20	11/24/20 02:50	75-27-4	
Bromoform	**<0.0515**	mg/kg	0.0515	0.00241	1.24	11/17/20 11:20	11/24/20 02:50	75-25-2	
Bromomethane	**<0.0257**	mg/kg	0.0257	0.00405	1.24	11/17/20 11:20	11/24/20 02:50	74-83-9	
n-Butylbenzene	**<0.0257**	mg/kg	0.0257	0.0108	1.24	11/17/20 11:20	11/24/20 02:50	104-51-8	
sec-Butylbenzene	**<0.0257**	mg/kg	0.0257	0.00593	1.24	11/17/20 11:20	11/24/20 02:50	135-98-8	
tert-Butylbenzene	**<0.0103**	mg/kg	0.0103	0.00402	1.24	11/17/20 11:20	11/24/20 02:50	98-06-6	
Carbon tetrachloride	**<0.0103**	mg/kg	0.0103	0.00184	1.24	11/17/20 11:20	11/24/20 02:50	56-23-5	
Chlorobenzene	**<0.00515**	mg/kg	0.00515	0.000432	1.24	11/17/20 11:20	11/24/20 02:50	108-90-7	
Dibromochloromethane	**<0.00515**	mg/kg	0.00515	0.00126	1.24	11/17/20 11:20	11/24/20 02:50	124-48-1	
Chloroethane	**<0.0103**	mg/kg	0.0103	0.00350	1.24	11/17/20 11:20	11/24/20 02:50	75-00-3	
Chloroform	**<0.00515**	mg/kg	0.00515	0.00212	1.24	11/17/20 11:20	11/24/20 02:50	67-66-3	
Chloromethane	**<0.0257**	mg/kg	0.0257	0.00895	1.24	11/17/20 11:20	11/24/20 02:50	74-87-3	
2-Chlorotoluene	**<0.00515**	mg/kg	0.00515	0.00178	1.24	11/17/20 11:20	11/24/20 02:50	95-49-8	
4-Chlorotoluene	**<0.0103**	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	**<0.0515**	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)	**<0.00515**	mg/kg	0.00515	0.00133	1.24	11/17/20 11:20	11/24/20 02:50	106-93-4	
Dibromomethane	**<0.0103**	mg/kg	0.0103	0.00154	1.24	11/17/20 11:20	11/24/20 02:50	74-95-3	
1,2-Dichlorobenzene	**<0.0103**	mg/kg	0.0103	0.000875	1.24	11/17/20 11:20	11/24/20 02:50	95-50-1	
1,3-Dichlorobenzene	**<0.0103**	mg/kg	0.0103	0.00123	1.24	11/17/20 11:20	11/24/20 02:50	541-73-1	
1,4-Dichlorobenzene	**<0.0103**	mg/kg	0.0103	0.00144	1.24	11/17/20 11:20	11/24/20 02:50	106-46-7	
Dichlorodifluoromethane	**<0.00515**	mg/kg	0.00515	0.00332	1.24	11/17/20 11:20	11/24/20 02:50	75-71-8	
1,1-Dichloroethane	**<0.00515**	mg/kg	0.00515	0.00101	1.24	11/17/20 11:20	11/24/20 02:50	75-34-3	
1,2-Dichloroethane	**<0.00515**	mg/kg	0.00515	0.00134	1.24	11/17/20 11:20	11/24/20 02:50	107-06-2	
1,1-Dichloroethene	**<0.00515**	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	**<0.00515**	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	**<0.0103**	mg/kg	0.0103	0.00214	1.24	11/17/20 11:20	11/24/20 02:50	156-60-5	
1,2-Dichloropropane	**<0.0103**	mg/kg	0.0103	0.00292	1.24	11/17/20 11:20	11/24/20 02:50	78-87-5	
1,1-Dichloropropene	**<0.00515**	mg/kg	0.00515	0.00166	1.24	11/17/20 11:20	11/24/20 02:50	563-58-6	
1,3-Dichloropropane	**<0.0103**	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	**<0.00515**	mg/kg	0.00515	0.00156	1.24	11/17/20 11:20	11/24/20 02:50	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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
Surrogates									
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet								
Aliphatic (C05-C08)	**4.46J**	mg/kg	8.93	2.98	1.05	11/17/20 14:50	11/24/20 21:26		J
Aliphatic (C09-C12)	**<8.93**	mg/kg	8.93	2.98	1.05	11/17/20 14:50	11/24/20 21:26		
Aromatic (C09-C10),Unadjusted	**<8.93**	mg/kg	8.93	2.98	1.05	11/17/20 14:50	11/24/20 21:26	TPHC9C10A	
Total VPH	**4.46J**	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	**<0.0915**	mg/kg	0.0915	0.0668	1.08	11/17/20 14:50	11/24/20 03:09	67-64-1	
Acrylonitrile	**<0.0229**	mg/kg	0.0229	0.00661	1.08	11/17/20 14:50	11/24/20 03:09	107-13-1	
Benzene	**0.0310**	mg/kg	0.00183	0.000854	1.08	11/17/20 14:50	11/24/20 03:09	71-43-2	
Bromobenzene	**<0.0229**	mg/kg	0.0229	0.00165	1.08	11/17/20 14:50	11/24/20 03:09	108-86-1	
Bromodichloromethane	**<0.00458**	mg/kg	0.00458	0.00133	1.08	11/17/20 14:50	11/24/20 03:09	75-27-4	
Bromoform	**<0.0458**	mg/kg	0.0458	0.00214	1.08	11/17/20 14:50	11/24/20 03:09	75-25-2	
Bromomethane	**<0.0229**	mg/kg	0.0229	0.00361	1.08	11/17/20 14:50	11/24/20 03:09	74-83-9	
n-Butylbenzene	**<0.0229**	mg/kg	0.0229	0.00961	1.08	11/17/20 14:50	11/24/20 03:09	104-51-8	
sec-Butylbenzene	**<0.0229**	mg/kg	0.0229	0.00527	1.08	11/17/20 14:50	11/24/20 03:09	135-98-8	
tert-Butylbenzene	**<0.00915**	mg/kg	0.00915	0.00358	1.08	11/17/20 14:50	11/24/20 03:09	98-06-6	
Carbon tetrachloride	**<0.00915**	mg/kg	0.00915	0.00164	1.08	11/17/20 14:50	11/24/20 03:09	56-23-5	
Chlorobenzene	**<0.00458**	mg/kg	0.00458	0.000385	1.08	11/17/20 14:50	11/24/20 03:09	108-90-7	
Dibromochloromethane	**<0.00458**	mg/kg	0.00458	0.00112	1.08	11/17/20 14:50	11/24/20 03:09	124-48-1	
Chloroethane	**<0.00915**	mg/kg	0.00915	0.00312	1.08	11/17/20 14:50	11/24/20 03:09	75-00-3	
Chloroform	**<0.00458**	mg/kg	0.00458	0.00188	1.08	11/17/20 14:50	11/24/20 03:09	67-66-3	
Chloromethane	**<0.0229**	mg/kg	0.0229	0.00797	1.08	11/17/20 14:50	11/24/20 03:09	74-87-3	
2-Chlorotoluene	**<0.00458**	mg/kg	0.00458	0.00158	1.08	11/17/20 14:50	11/24/20 03:09	95-49-8	
4-Chlorotoluene	**<0.00915**	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	**<0.0458**	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)	**<0.00458**	mg/kg	0.00458	0.00119	1.08	11/17/20 14:50	11/24/20 03:09	106-93-4	
Dibromomethane	**<0.00915**	mg/kg	0.00915	0.00137	1.08	11/17/20 14:50	11/24/20 03:09	74-95-3	
1,2-Dichlorobenzene	**<0.00915**	mg/kg	0.00915	0.000778	1.08	11/17/20 14:50	11/24/20 03:09	95-50-1	
1,3-Dichlorobenzene	**<0.00915**	mg/kg	0.00915	0.00110	1.08	11/17/20 14:50	11/24/20 03:09	541-73-1	
1,4-Dichlorobenzene	**<0.00915**	mg/kg	0.00915	0.00128	1.08	11/17/20 14:50	11/24/20 03:09	106-46-7	
Dichlorodifluoromethane	**<0.00458**	mg/kg	0.00458	0.00295	1.08	11/17/20 14:50	11/24/20 03:09	75-71-8	
1,1-Dichloroethane	**<0.00458**	mg/kg	0.00458	0.000898	1.08	11/17/20 14:50	11/24/20 03:09	75-34-3	
1,2-Dichloroethane	**<0.00458**	mg/kg	0.00458	0.00119	1.08	11/17/20 14:50	11/24/20 03:09	107-06-2	
1,1-Dichloroethene	**<0.00458**	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	**<0.00458**	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	**<0.00915**	mg/kg	0.00915	0.00190	1.08	11/17/20 14:50	11/24/20 03:09	156-60-5	
1,2-Dichloropropane	**<0.00915**	mg/kg	0.00915	0.00259	1.08	11/17/20 14:50	11/24/20 03:09	78-87-5	
1,1-Dichloropropene	**<0.00458**	mg/kg	0.00458	0.00148	1.08	11/17/20 14:50	11/24/20 03:09	563-58-6	
1,3-Dichloropropane	**<0.00915**	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	**<0.00458**	mg/kg	0.00458	0.00139	1.08	11/17/20 14:50	11/24/20 03:09	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
MADEPV	Analytical Method: MADEP 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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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
VOA (GC/MS) 8260D	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	
Surrogates									
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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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

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	

LABORATORY CONTROL SAMPLE & LCSD: R3597451-1 R3597451-2

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	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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

LABORATORY CONTROL SAMPLE & LCSD: R3598732-1 R3598732-2

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	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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

LABORATORY CONTROL SAMPLE & LCSD: R3598141-1 R3598141-2

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	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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506678

QC Batch: 1584348
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506678

QC Batch: 1581174
QC Batch Method: 5035A
Analysis Method: EPA 8260D
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	92506678014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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	ND	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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3597546-3 R3597546-4

Parameter	Units	92506678014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	92506678026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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	
Bromoform	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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3596816-4 R3596816-5

Parameter	Units	92506678026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506678

QC Batch: 1582736
QC Batch Method: 5035A
Analysis Method: EPA 8260D
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	

LABORATORY CONTROL SAMPLE & LCSD: R3598070-1 R3598070-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506678

QC Batch: 1583608
QC Batch Method: 5035A
Analysis Method: EPA 8260D
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			

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506678

QC Batch: 1581972
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506678

QC Batch: 1581974
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

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

WO# : 92506678

92506678

Cor .Y

** 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 _____

Company: Apex Companies	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: NC / County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Matt Gorman / Rick McBride	Purchase Order #: Quote #: 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 (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) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOC 8260	Analyses: MADEP VPH	Lab Sample # / Comments
200-W	SL	G	11/17	0925				3	X	X	001
200-B	SL	G	11/17	0931				3	X	X	002
200-E	SL	G	11/17	1343				3	X	X	003
225-W	SL	G	11/17	0937				3	X	X	004
225-B	SL	G	11/17	1001				3	X	X	005
225-E	SL	G	11/17	1348				3	X	X	006
250-W	SL	G	11/17	1013				3	X	X	007
250-B	SL	G	11/17	1017				3	X	X	008
250-E	SL	G	11/17	1353				3	X	X	009
275-W	SL	G	11/17	1026				3	X	X	010

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Other

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

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

Lab Tracking #: 2560814

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N (NA)

Therm ID#: 92T061

Cooler 1 Temp Upon Receipt: 1.3,2.9 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 1.8,2.8 oC

Comments:

Relinquished by/Company: (Signature) Apex 11/18/20	Date/Time:	Received by/Company: (Signature) Pace	Date/Time: 11/18/20 917	MTJL LAB USE ONLY
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Table #: Acctnum: Template: Prelogin: PM: PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Trip Blank Received: Y N (NA)

HCL MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: _____ of: _____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

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

ALL SHADED AREAS are for LAB USE ONLY

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew Street
Copy To: Matt Gorman	Site Collection Info/Address:
Customer Project Name/Number: 2020-LI-2448	State: NC / County/City: Huntersville / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Matthew Parker McBride	Purchase Order #: / Quote #: / 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 (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis:

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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOC 8260	Analyses: MADEP VPH	Lab Sample # / Comments
											92506678
275-B	SL	G	11/17	1031				3	X	X	011
275-E	SL	G	11/17	1359				3	X	X	012
300-W	SL	G	11/17	1046				3	X	X	013
300-B	SL	G	11/17	1043				2	X	X	014
300-E	SL	G	11/17	1404				3	X	X	015
325 W	SL	G	11/17	1107				3	X	X	016
325 B	SL	G	11/17	1111				3	X	X	017
325 E	SL	G	11/17	1410				3	X	X	018
350 W	SL	G	11/17	1114				3	X	X	019
350 B	SL	G	11/17	1115				3	X	X	020

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Other

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

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

Lab Tracking #: 2560815

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N (NA)

Therm ID#: 92T001

Cooler 1 Temp Upon Receipt: 1.8, 2.9 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 1.8, 2.9 oC

Comments:

Trip Blank Received: Y N (NA)

HCL MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: _____ of: _____

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Apex	0917 11/18/20	Received	11/18/20 0917
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

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

ALL SHADED AREAS are for LAB USE ONLY

Company: Apex Companies
Address:
Billing Information:

Report To: Andrew Street
Email To: Andrew Street
Copy To: Matt Gorman
Site Collection Info/Address:
Customer Project Name/Number: 2020-LI-2448
State: NC / County/City: Huntersville / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email:
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Matt Gorman / Rick McBride
Purchase Order #:
Quote #:
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 (Expedite Charges Apply)
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis: ____

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 ____

* 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)

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	VOC 8260	MADEP VPH	Lab Sample # / Comments: 92506678
350-E	SL	G	11/17	1444				3	X	X	021
375-W	SL	G	11/17	1122				3	X	X	022
375-B	SL	G	11/17	1120				3	X	X	023
375-E	SL	G	11/17	1450				3	X	X	024
North wall	SL	G	11/17	1505				3	X	X	025
South wall	SL	G	11/17	1500				3	X	X	026

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:
Sulfide Present Y N (NA)
Lead Acetate Strips:

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None
Packing Material Used: Other
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2560817
Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 92T061
Cooler 1 Temp Upon Receipt: 1.8 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
[signature] / Apex 0917 11/18/20		[signature] Pace 4UC	11/18/20 917	Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 09, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on November 30, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508536001	**MW-01**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536002	**MW-02**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536003	**MW-04**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536004	**MW-05**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536005	**MW-06**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536006	**MW-09**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536007	**MW-12**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536008	**MW-15**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536009	**MW-30**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536010	**FB-01-20201130**	MADEP VPH	JHH	6	PAN
		SM 6200B	SAS	63	PASI-C
92508536011	**Trip Blank**	SM 6200B	SAS	63	PASI-C
92508536012	**MW-34**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536013	**MW-33**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536014	**MW-32**	MADEP VPH	JHH	6	PAN

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536015	**MW-7**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536016	**MW-27**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536017	**MW-3**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536018	**MW-35**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536019	**MW-36**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536020	**MW-37**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508536021	**Trip Blank 2**	SM 6200B	SAS	63	PASI-C

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-01 **Lab ID: 92508536001** Collected: 11/30/20 09:35 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 10:01	12/04/20 10:01		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 10:01	12/04/20 10:01		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 10:01	12/04/20 10:01	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 10:01	12/04/20 10:01	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	84.7	%	70.0-130	1	12/04/20 10:01	12/04/20 10:01	615-59-8FID	
2,5-Dibromotoluene (PID)	77.8	%	70.0-130	1	12/04/20 10:01	12/04/20 10:01	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**43.9**	ug/L	5.0	1	12/02/20 02:03	12/07/20 03:21	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/02/20 20:18	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/02/20 20:18	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/02/20 20:18	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/02/20 20:18	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/02/20 20:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/20 20:18	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/02/20 20:18	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/02/20 20:18	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/02/20 20:18	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/02/20 20:18	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/02/20 20:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/02/20 20:18	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/02/20 20:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/02/20 20:18	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/02/20 20:18	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/02/20 20:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/02/20 20:18	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/02/20 20:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/02/20 20:18	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/02/20 20:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 20:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 20:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 20:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/02/20 20:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/02/20 20:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/02/20 20:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/02/20 20:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/02/20 20:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/02/20 20:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/02/20 20:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/02/20 20:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/02/20 20:18	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-01 **Lab ID: 92508536001** Collected: 11/30/20 09:35 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/02/20 20:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/02/20 20:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/02/20 20:18	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/02/20 20:18	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/02/20 20:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/02/20 20:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/02/20 20:18	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/02/20 20:18	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/02/20 20:18	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/02/20 20:18	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/02/20 20:18	103-65-1	
Styrene	ND	ug/L	0.50	1		12/02/20 20:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/02/20 20:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/02/20 20:18	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/02/20 20:18	127-18-4	
Toluene	ND	ug/L	0.50	1		12/02/20 20:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/02/20 20:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/02/20 20:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/02/20 20:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/02/20 20:18	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/02/20 20:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/02/20 20:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/02/20 20:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/02/20 20:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/02/20 20:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/02/20 20:18	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/02/20 20:18	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/02/20 20:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/02/20 20:18	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/02/20 20:18	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/02/20 20:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-02 **Lab ID: 92508536002** Collected: 11/30/20 12:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 10:34	12/04/20 10:34		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 10:34	12/04/20 10:34		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 10:34	12/04/20 10:34	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 10:34	12/04/20 10:34	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	85.5	%	70.0-130	1	12/04/20 10:34	12/04/20 10:34	615-59-8FID	
2,5-Dibromotoluene (PID)	77.7	%	70.0-130	1	12/04/20 10:34	12/04/20 10:34	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**20.8**	ug/L	5.0	1	12/02/20 02:03	12/07/20 03:25	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/02/20 20:36	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/02/20 20:36	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/02/20 20:36	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/02/20 20:36	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/02/20 20:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/20 20:36	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/02/20 20:36	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/02/20 20:36	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/02/20 20:36	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/02/20 20:36	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/02/20 20:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/02/20 20:36	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/02/20 20:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/02/20 20:36	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/02/20 20:36	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/02/20 20:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/02/20 20:36	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/02/20 20:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/02/20 20:36	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/02/20 20:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 20:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 20:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 20:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/02/20 20:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/02/20 20:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/02/20 20:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/02/20 20:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/02/20 20:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/02/20 20:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/02/20 20:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/02/20 20:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/02/20 20:36	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-02 **Lab ID: 92508536002** Collected: 11/30/20 12:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/02/20 20:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/02/20 20:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/02/20 20:36	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/02/20 20:36	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/02/20 20:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/02/20 20:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/02/20 20:36	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/02/20 20:36	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/02/20 20:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/02/20 20:36	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/02/20 20:36	103-65-1	
Styrene	ND	ug/L	0.50	1		12/02/20 20:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/02/20 20:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/02/20 20:36	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/02/20 20:36	127-18-4	
Toluene	ND	ug/L	0.50	1		12/02/20 20:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/02/20 20:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/02/20 20:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/02/20 20:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/02/20 20:36	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/02/20 20:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/02/20 20:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/02/20 20:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/02/20 20:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/02/20 20:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/02/20 20:36	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/02/20 20:36	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/02/20 20:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/02/20 20:36	17060-07-0	
4-Bromofluorobenzene (S)	107	%	70-130	1		12/02/20 20:36	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/02/20 20:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-04 **Lab ID: 92508536003** Collected: 11/30/20 14:40 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 11:07	12/04/20 11:07		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 11:07	12/04/20 11:07		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 11:07	12/04/20 11:07	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 11:07	12/04/20 11:07	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.5	%	70.0-130	1	12/04/20 11:07	12/04/20 11:07	615-59-8FID	
2,5-Dibromotoluene (PID)	81.8	%	70.0-130	1	12/04/20 11:07	12/04/20 11:07	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**16.3**	ug/L	5.0	1	12/02/20 02:03	12/07/20 03:28	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/02/20 20:54	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/02/20 20:54	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/02/20 20:54	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/02/20 20:54	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/02/20 20:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/20 20:54	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/02/20 20:54	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/02/20 20:54	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/02/20 20:54	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/02/20 20:54	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/02/20 20:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/02/20 20:54	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/02/20 20:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/02/20 20:54	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/02/20 20:54	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/02/20 20:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/02/20 20:54	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/02/20 20:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/02/20 20:54	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/02/20 20:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 20:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 20:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 20:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/02/20 20:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/02/20 20:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/02/20 20:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/02/20 20:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/02/20 20:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/02/20 20:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/02/20 20:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/02/20 20:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/02/20 20:54	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-04 **Lab ID: 92508536003** Collected: 11/30/20 14:40 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/02/20 20:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/02/20 20:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/02/20 20:54	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/02/20 20:54	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/02/20 20:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/02/20 20:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/02/20 20:54	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/02/20 20:54	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/02/20 20:54	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/02/20 20:54	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/02/20 20:54	103-65-1	
Styrene	ND	ug/L	0.50	1		12/02/20 20:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/02/20 20:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/02/20 20:54	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/02/20 20:54	127-18-4	
Toluene	ND	ug/L	0.50	1		12/02/20 20:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/02/20 20:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/02/20 20:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/02/20 20:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/02/20 20:54	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/02/20 20:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/02/20 20:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/02/20 20:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/02/20 20:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/02/20 20:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/02/20 20:54	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/02/20 20:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/02/20 20:54	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		12/02/20 20:54	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/02/20 20:54	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/02/20 20:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-05 **Lab ID: 92508536004** Collected: 11/30/20 09:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 11:41	12/04/20 11:41		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 11:41	12/04/20 11:41		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 11:41	12/04/20 11:41	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 11:41	12/04/20 11:41	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.9	%	70.0-130	1	12/04/20 11:41	12/04/20 11:41	615-59-8FID	
2,5-Dibromotoluene (PID)	80.7	%	70.0-130	1	12/04/20 11:41	12/04/20 11:41	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**13.3**	ug/L	5.0	1	12/02/20 02:03	12/07/20 03:31	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/02/20 21:12	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/02/20 21:12	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/02/20 21:12	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/02/20 21:12	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/02/20 21:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/20 21:12	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/02/20 21:12	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/02/20 21:12	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/02/20 21:12	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/02/20 21:12	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/02/20 21:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/02/20 21:12	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/02/20 21:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/02/20 21:12	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/02/20 21:12	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/02/20 21:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/02/20 21:12	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/02/20 21:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/02/20 21:12	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/02/20 21:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 21:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 21:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/02/20 21:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/02/20 21:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/02/20 21:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/02/20 21:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/02/20 21:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/02/20 21:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/02/20 21:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/02/20 21:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/02/20 21:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/02/20 21:12	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-05 **Lab ID: 92508536004** Collected: 11/30/20 09:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/02/20 21:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/02/20 21:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/02/20 21:12	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/02/20 21:12	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/02/20 21:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/02/20 21:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/02/20 21:12	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/02/20 21:12	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/02/20 21:12	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/02/20 21:12	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/02/20 21:12	103-65-1	
Styrene	ND	ug/L	0.50	1		12/02/20 21:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/02/20 21:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/02/20 21:12	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/02/20 21:12	127-18-4	
Toluene	ND	ug/L	0.50	1		12/02/20 21:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/02/20 21:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/02/20 21:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/02/20 21:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/02/20 21:12	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/02/20 21:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/02/20 21:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/02/20 21:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/02/20 21:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/02/20 21:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/02/20 21:12	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/02/20 21:12	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/02/20 21:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/02/20 21:12	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/02/20 21:12	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/02/20 21:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-06 **Lab ID: 92508536005** Collected: 11/30/20 11:45 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 12:14	12/04/20 12:14		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 12:14	12/04/20 12:14		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 12:14	12/04/20 12:14	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 12:14	12/04/20 12:14	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.9	%	70.0-130	1	12/04/20 12:14	12/04/20 12:14	615-59-8FID	
2,5-Dibromotoluene (PID)	82.5	%	70.0-130	1	12/04/20 12:14	12/04/20 12:14	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**23.3**	ug/L	5.0	1	12/02/20 02:03	12/07/20 03:34	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 02:34	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 02:34	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 02:34	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 02:34	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 02:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 02:34	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 02:34	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 02:34	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 02:34	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 02:34	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 02:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 02:34	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 02:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 02:34	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 02:34	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 02:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 02:34	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 02:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 02:34	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 02:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 02:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 02:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 02:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 02:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 02:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 02:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 02:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 02:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 02:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 02:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 02:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 02:34	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-06 **Lab ID: 92508536005** Collected: 11/30/20 11:45 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 02:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 02:34	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 02:34	10061-02-6	R1
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 02:34	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 02:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 02:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 02:34	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 02:34	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 02:34	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 02:34	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 02:34	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 02:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 02:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 02:34	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 02:34	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 02:34	108-88-3	R1
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 02:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 02:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 02:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 02:34	79-00-5	R1
Trichloroethene	ND	ug/L	0.50	1		12/03/20 02:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 02:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 02:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 02:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 02:34	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 02:34	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 02:34	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 02:34	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/03/20 02:34	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		12/03/20 02:34	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		12/03/20 02:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-09 **Lab ID: 92508536006** Collected: 11/30/20 11:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 12:47	12/04/20 12:47		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 12:47	12/04/20 12:47		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 12:47	12/04/20 12:47	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 12:47	12/04/20 12:47	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.5	%	70.0-130	1	12/04/20 12:47	12/04/20 12:47	615-59-8FID	
2,5-Dibromotoluene (PID)	82.5	%	70.0-130	1	12/04/20 12:47	12/04/20 12:47	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**7.2**	ug/L	5.0	1	12/02/20 02:03	12/07/20 03:37	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 02:52	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 02:52	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 02:52	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 02:52	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 02:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 02:52	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 02:52	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 02:52	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 02:52	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 02:52	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 02:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 02:52	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 02:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 02:52	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 02:52	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 02:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 02:52	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 02:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 02:52	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 02:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 02:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 02:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 02:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 02:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 02:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 02:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 02:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 02:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 02:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 02:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 02:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 02:52	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-09 **Lab ID: 92508536006** Collected: 11/30/20 11:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 02:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 02:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 02:52	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 02:52	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 02:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 02:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 02:52	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 02:52	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 02:52	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 02:52	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 02:52	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 02:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 02:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 02:52	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 02:52	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 02:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 02:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 02:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 02:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 02:52	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 02:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 02:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 02:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 02:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 02:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 02:52	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 02:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 02:52	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		12/03/20 02:52	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/03/20 02:52	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/03/20 02:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-12 **Lab ID: 92508536007** Collected: 11/30/20 14:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 13:21	12/04/20 13:21		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 13:21	12/04/20 13:21		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 13:21	12/04/20 13:21	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 13:21	12/04/20 13:21	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.0	%	70.0-130	1	12/04/20 13:21	12/04/20 13:21	615-59-8FID	
2,5-Dibromotoluene (PID)	81.5	%	70.0-130	1	12/04/20 13:21	12/04/20 13:21	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**8.7**	ug/L	5.0	1	12/02/20 02:03	12/07/20 03:41	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 03:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 03:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 03:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 03:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 03:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 03:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 03:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 03:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 03:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 03:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 03:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 03:10	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 03:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 03:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 03:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 03:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 03:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 03:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 03:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 03:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 03:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 03:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 03:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 03:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 03:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 03:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 03:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 03:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 03:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 03:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 03:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 03:10	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-12 **Lab ID: 92508536007** Collected: 11/30/20 14:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 03:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 03:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 03:10	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 03:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 03:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 03:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 03:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 03:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 03:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 03:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 03:10	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 03:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 03:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 03:10	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 03:10	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 03:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 03:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 03:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 03:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 03:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 03:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 03:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 03:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 03:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 03:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 03:10	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 03:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 03:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/03/20 03:10	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/03/20 03:10	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		12/03/20 03:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-15 **Lab ID: 92508536008** Collected: 11/30/20 15:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 13:54	12/04/20 13:54		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 13:54	12/04/20 13:54		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 13:54	12/04/20 13:54	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 13:54	12/04/20 13:54	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.4	%	70.0-130	1	12/04/20 13:54	12/04/20 13:54	615-59-8FID	
2,5-Dibromotoluene (PID)	82.4	%	70.0-130	1	12/04/20 13:54	12/04/20 13:54	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**28.9**	ug/L	5.0	1	12/03/20 01:49	12/06/20 20:22	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 03:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 03:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 03:28	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 03:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 03:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 03:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 03:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 03:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 03:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 03:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 03:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 03:28	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 03:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 03:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 03:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 03:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 03:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 03:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 03:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 03:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 03:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 03:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 03:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 03:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 03:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 03:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 03:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 03:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 03:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 03:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 03:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 03:28	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-15 **Lab ID: 92508536008** Collected: 11/30/20 15:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 03:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 03:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 03:28	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 03:28	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 03:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 03:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 03:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 03:28	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 03:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 03:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 03:28	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 03:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 03:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 03:28	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 03:28	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 03:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 03:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 03:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 03:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 03:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 03:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 03:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 03:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 03:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 03:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 03:28	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 03:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 03:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/03/20 03:28	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/03/20 03:28	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/03/20 03:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-30 **Lab ID: 92508536009** Collected: 11/30/20 10:30 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 14:27	12/04/20 14:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 14:27	12/04/20 14:27		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 14:27	12/04/20 14:27	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 14:27	12/04/20 14:27	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.9	%	70.0-130	1	12/04/20 14:27	12/04/20 14:27	615-59-8FID	
2,5-Dibromotoluene (PID)	80.4	%	70.0-130	1	12/04/20 14:27	12/04/20 14:27	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	12/03/20 01:49	12/06/20 20:35	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 03:46	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 03:46	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 03:46	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 03:46	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 03:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 03:46	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 03:46	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 03:46	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 03:46	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 03:46	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 03:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 03:46	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 03:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 03:46	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 03:46	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 03:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 03:46	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 03:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 03:46	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 03:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 03:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 03:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 03:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 03:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 03:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 03:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 03:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 03:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 03:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 03:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 03:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 03:46	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-30 **Lab ID: 92508536009** Collected: 11/30/20 10:30 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 03:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 03:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 03:46	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 03:46	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 03:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 03:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 03:46	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 03:46	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 03:46	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 03:46	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 03:46	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 03:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 03:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 03:46	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 03:46	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 03:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 03:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 03:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 03:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 03:46	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 03:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 03:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 03:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 03:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 03:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 03:46	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 03:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 03:46	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/03/20 03:46	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/03/20 03:46	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/03/20 03:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: FB-01-20201130 **Lab ID: 92508536010** Collected: 11/30/20 16:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 09:28	12/04/20 09:28		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 09:28	12/04/20 09:28		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 09:28	12/04/20 09:28	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 09:28	12/04/20 09:28	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	81.8	%	70.0-130	1	12/04/20 09:28	12/04/20 09:28	615-59-8FID	
2,5-Dibromotoluene (PID)	75.5	%	70.0-130	1	12/04/20 09:28	12/04/20 09:28	615-59-8PID	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 01:40	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 01:40	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 01:40	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 01:40	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 01:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 01:40	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 01:40	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 01:40	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 01:40	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 01:40	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 01:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 01:40	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 01:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 01:40	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 01:40	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 01:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 01:40	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 01:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 01:40	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 01:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 01:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 01:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 01:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 01:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 01:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 01:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 01:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 01:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 01:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 01:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 01:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 01:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 01:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 01:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 01:40	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 01:40	108-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: FB-01-20201130 **Lab ID: 92508536010** Collected: 11/30/20 16:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 01:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 01:40	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 01:40	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 01:40	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 01:40	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 01:40	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 01:40	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 01:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 01:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 01:40	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 01:40	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 01:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 01:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 01:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 01:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 01:40	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 01:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 01:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 01:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 01:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 01:40	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 01:40	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 01:40	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 01:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/03/20 01:40	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/03/20 01:40	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/03/20 01:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: Trip Blank **Lab ID: 92508536011** Collected: 11/30/20 00:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 01:58	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 01:58	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 01:58	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 01:58	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 01:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 01:58	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 01:58	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 01:58	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 01:58	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 01:58	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 01:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 01:58	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 01:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 01:58	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 01:58	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 01:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 01:58	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 01:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 01:58	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 01:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 01:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 01:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 01:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 01:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 01:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 01:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 01:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 01:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 01:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 01:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 01:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 01:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 01:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 01:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 01:58	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 01:58	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 01:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 01:58	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 01:58	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 01:58	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 01:58	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 01:58	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 01:58	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 01:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 01:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 01:58	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: Trip Blank **Lab ID: 92508536011** Collected: 11/30/20 00:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 01:58	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 01:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 01:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 01:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 01:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 01:58	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 01:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 01:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 01:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 01:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 01:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 01:58	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 01:58	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 01:58	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		12/03/20 01:58	17060-07-0	
4-Bromofluorobenzene (S)	90	%	70-130	1		12/03/20 01:58	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/03/20 01:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-34 **Lab ID: 92508536012** Collected: 11/30/20 09:35 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 15:00	12/04/20 15:00		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 15:00	12/04/20 15:00		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 15:00	12/04/20 15:00	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 15:00	12/04/20 15:00	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.7	%	70.0-130	1	12/04/20 15:00	12/04/20 15:00	615-59-8FID	
2,5-Dibromotoluene (PID)	84.0	%	70.0-130	1	12/04/20 15:00	12/04/20 15:00	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**6.0**	ug/L	5.0	1	12/03/20 01:49	12/06/20 20:38	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 04:04	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 04:04	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 04:04	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 04:04	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 04:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 04:04	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:04	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:04	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:04	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 04:04	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 04:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 04:04	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 04:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 04:04	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 04:04	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 04:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 04:04	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 04:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 04:04	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 04:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 04:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 04:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 04:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:04	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-34 **Lab ID: 92508536012** Collected: 11/30/20 09:35 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 04:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 04:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 04:04	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 04:04	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 04:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 04:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 04:04	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 04:04	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 04:04	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 04:04	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 04:04	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 04:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 04:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 04:04	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 04:04	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 04:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 04:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 04:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 04:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 04:04	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 04:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 04:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 04:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 04:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 04:04	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 04:04	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 04:04	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 04:04	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/03/20 04:04	17060-07-0	
4-Bromofluorobenzene (S)	89	%	70-130	1		12/03/20 04:04	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		12/03/20 04:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-33 **Lab ID: 92508536013** Collected: 11/30/20 10:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 15:33	12/04/20 15:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 15:33	12/04/20 15:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 15:33	12/04/20 15:33	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 15:33	12/04/20 15:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.4	%	70.0-130	1	12/04/20 15:33	12/04/20 15:33	615-59-8FID	
2,5-Dibromotoluene (PID)	84.2	%	70.0-130	1	12/04/20 15:33	12/04/20 15:33	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**11.0**	ug/L	5.0	1	12/03/20 01:49	12/06/20 20:41	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 04:22	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 04:22	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 04:22	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 04:22	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 04:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 04:22	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:22	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:22	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:22	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 04:22	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 04:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 04:22	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 04:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 04:22	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 04:22	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 04:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 04:22	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 04:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 04:22	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 04:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 04:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 04:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 04:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:22	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-33 **Lab ID: 92508536013** Collected: 11/30/20 10:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 04:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 04:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 04:22	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 04:22	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 04:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 04:22	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 04:22	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 04:22	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 04:22	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 04:22	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 04:22	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 04:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 04:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 04:22	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 04:22	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 04:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 04:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 04:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 04:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 04:22	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 04:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 04:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 04:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 04:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 04:22	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 04:22	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 04:22	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 04:22	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/03/20 04:22	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/03/20 04:22	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		12/03/20 04:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-32 **Lab ID: 92508536014** Collected: 11/30/20 10:30 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 16:06	12/04/20 16:06		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 16:06	12/04/20 16:06		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 16:06	12/04/20 16:06	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 16:06	12/04/20 16:06	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.1	%	70.0-130	1	12/04/20 16:06	12/04/20 16:06	615-59-8FID	
2,5-Dibromotoluene (PID)	83.4	%	70.0-130	1	12/04/20 16:06	12/04/20 16:06	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**10.2**	ug/L	5.0	1	12/03/20 01:49	12/06/20 20:44	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 04:40	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 04:40	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 04:40	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 04:40	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 04:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 04:40	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:40	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:40	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:40	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 04:40	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 04:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 04:40	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 04:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 04:40	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 04:40	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 04:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 04:40	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 04:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 04:40	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 04:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 04:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 04:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 04:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:40	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-32 **Lab ID: 92508536014** Collected: 11/30/20 10:30 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 04:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 04:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 04:40	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 04:40	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 04:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 04:40	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 04:40	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 04:40	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 04:40	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 04:40	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 04:40	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 04:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 04:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 04:40	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 04:40	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 04:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 04:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 04:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 04:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 04:40	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 04:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 04:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 04:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 04:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 04:40	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 04:40	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 04:40	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 04:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/03/20 04:40	17060-07-0	
4-Bromofluorobenzene (S)	91	%	70-130	1		12/03/20 04:40	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		12/03/20 04:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-7 **Lab ID: 92508536015** Collected: 11/30/20 12:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 16:39	12/04/20 16:39		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 16:39	12/04/20 16:39		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 16:39	12/04/20 16:39	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 16:39	12/04/20 16:39	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.0	%	70.0-130	1	12/04/20 16:39	12/04/20 16:39	615-59-8FID	
2,5-Dibromotoluene (PID)	84.6	%	70.0-130	1	12/04/20 16:39	12/04/20 16:39	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**35.3**	ug/L	5.0	1	12/03/20 01:49	12/06/20 20:48	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 04:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 04:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 04:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 04:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 04:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 04:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 04:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 04:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 04:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 04:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 04:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 04:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 04:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 04:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 04:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 04:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 04:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 04:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 04:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 04:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 04:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 04:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 04:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 04:57	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-7 **Lab ID: 92508536015** Collected: 11/30/20 12:00 Received: 11/30/20 16:30 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-27 **Lab ID: 92508536016** Collected: 11/30/20 12:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 17:12	12/04/20 17:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 17:12	12/04/20 17:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 17:12	12/04/20 17:12	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 17:12	12/04/20 17:12	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.3	%	70.0-130	1	12/04/20 17:12	12/04/20 17:12	615-59-8FID	
2,5-Dibromotoluene (PID)	83.2	%	70.0-130	1	12/04/20 17:12	12/04/20 17:12	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**24.8**	ug/L	5.0	1	12/03/20 01:49	12/06/20 20:51	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 05:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 05:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 05:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 05:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 05:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 05:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 05:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 05:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 05:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 05:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 05:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 05:15	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 05:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 05:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 05:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 05:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 05:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 05:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 05:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 05:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 05:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 05:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 05:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 05:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 05:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 05:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 05:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 05:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 05:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 05:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 05:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 05:15	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-27 **Lab ID: 92508536016** Collected: 11/30/20 12:20 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 05:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 05:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 05:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 05:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 05:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 05:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 05:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 05:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 05:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 05:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 05:15	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 05:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 05:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 05:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 05:15	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 05:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 05:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 05:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 05:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 05:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 05:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 05:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 05:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 05:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 05:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 05:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 05:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 05:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		12/03/20 05:15	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/03/20 05:15	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/03/20 05:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-3 **Lab ID: 92508536017** Collected: 11/30/20 11:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 17:45	12/04/20 17:45		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 17:45	12/04/20 17:45		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 17:45	12/04/20 17:45	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 17:45	12/04/20 17:45	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.1	%	70.0-130	1	12/04/20 17:45	12/04/20 17:45	615-59-8FID	
2,5-Dibromotoluene (PID)	84.8	%	70.0-130	1	12/04/20 17:45	12/04/20 17:45	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**13.7**	ug/L	5.0	1	12/03/20 01:49	12/06/20 21:00	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 05:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 05:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 05:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 05:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 05:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 05:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 05:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 05:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 05:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 05:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 05:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 05:33	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 05:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 05:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 05:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 05:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 05:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 05:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 05:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 05:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 05:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 05:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 05:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 05:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 05:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 05:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 05:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 05:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 05:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 05:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 05:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 05:33	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-3 **Lab ID: 92508536017** Collected: 11/30/20 11:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 05:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 05:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 05:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 05:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 05:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 05:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 05:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 05:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 05:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 05:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 05:33	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 05:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 05:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 05:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 05:33	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 05:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 05:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 05:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 05:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 05:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 05:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 05:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 05:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 05:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 05:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 05:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 05:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 05:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/03/20 05:33	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/03/20 05:33	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/03/20 05:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-35 **Lab ID: 92508536018** Collected: 11/30/20 14:45 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 18:19	12/04/20 18:19		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 18:19	12/04/20 18:19		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 18:19	12/04/20 18:19	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 18:19	12/04/20 18:19	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.3	%	70.0-130	1	12/04/20 18:19	12/04/20 18:19	615-59-8FID	
2,5-Dibromotoluene (PID)	86.2	%	70.0-130	1	12/04/20 18:19	12/04/20 18:19	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**12.2**	ug/L	5.0	1	12/03/20 01:49	12/06/20 21:04	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 05:51	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 05:51	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 05:51	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 05:51	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 05:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 05:51	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 05:51	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 05:51	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 05:51	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 05:51	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 05:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 05:51	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 05:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 05:51	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 05:51	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 05:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 05:51	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 05:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 05:51	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 05:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 05:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 05:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 05:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 05:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 05:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 05:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 05:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 05:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 05:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 05:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 05:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 05:51	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-35 **Lab ID: 92508536018** Collected: 11/30/20 14:45 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 05:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 05:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 05:51	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 05:51	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 05:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 05:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 05:51	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 05:51	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 05:51	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 05:51	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 05:51	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 05:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 05:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 05:51	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 05:51	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 05:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 05:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 05:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 05:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 05:51	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 05:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 05:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 05:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 05:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 05:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 05:51	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 05:51	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 05:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		12/03/20 05:51	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/03/20 05:51	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/03/20 05:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-36 **Lab ID: 92508536019** Collected: 11/30/20 15:15 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 18:51	12/04/20 18:51		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 18:51	12/04/20 18:51		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 18:51	12/04/20 18:51	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 18:51	12/04/20 18:51	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.4	%	70.0-130	1	12/04/20 18:51	12/04/20 18:51	615-59-8FID	
2,5-Dibromotoluene (PID)	85.2	%	70.0-130	1	12/04/20 18:51	12/04/20 18:51	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**18.4**	ug/L	5.0	1	12/03/20 01:49	12/06/20 21:07	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 06:09	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 06:09	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 06:09	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 06:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 06:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 06:09	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 06:09	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 06:09	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 06:09	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 06:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 06:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 06:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 06:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 06:09	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 06:09	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 06:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 06:09	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 06:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 06:09	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 06:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 06:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 06:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 06:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 06:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 06:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 06:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 06:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 06:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 06:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 06:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 06:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 06:09	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-36 **Lab ID: 92508536019** Collected: 11/30/20 15:15 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 06:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 06:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 06:09	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 06:09	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 06:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 06:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 06:09	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 06:09	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 06:09	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 06:09	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 06:09	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 06:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 06:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 06:09	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 06:09	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 06:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 06:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 06:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 06:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 06:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 06:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 06:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 06:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 06:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 06:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 06:09	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 06:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 06:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/03/20 06:09	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/03/20 06:09	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/03/20 06:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-37 **Lab ID: 92508536020** Collected: 11/30/20 15:45 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/04/20 19:24	12/04/20 19:24		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/04/20 19:24	12/04/20 19:24		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/04/20 19:24	12/04/20 19:24	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/04/20 19:24	12/04/20 19:24	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.3	%	70.0-130	1	12/04/20 19:24	12/04/20 19:24	615-59-8FID	
2,5-Dibromotoluene (PID)	85.2	%	70.0-130	1	12/04/20 19:24	12/04/20 19:24	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**9.0**	ug/L	5.0	1	12/03/20 01:49	12/06/20 21:10	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 06:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 06:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 06:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 06:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 06:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 06:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 06:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 06:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 06:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 06:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 06:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 06:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 06:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 06:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 06:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 06:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 06:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 06:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 06:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 06:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 06:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 06:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 06:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 06:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 06:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 06:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 06:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 06:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 06:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 06:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 06:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 06:27	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: MW-37 **Lab ID: 92508536020** Collected: 11/30/20 15:45 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 06:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 06:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 06:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 06:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 06:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 06:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 06:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 06:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 06:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 06:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 06:27	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 06:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 06:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 06:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 06:27	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 06:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 06:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 06:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 06:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 06:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 06:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 06:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 06:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 06:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 06:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 06:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 06:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 06:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/03/20 06:27	17060-07-0	
4-Bromofluorobenzene (S)	122	%	70-130	1		12/03/20 06:27	460-00-4	
Toluene-d8 (S)	89	%	70-130	1		12/03/20 06:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: Trip Blank 2 **Lab ID: 92508536021** Collected: 11/30/20 00:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 02:16	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 02:16	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 02:16	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 02:16	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 02:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 02:16	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 02:16	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 02:16	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 02:16	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 02:16	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 02:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 02:16	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 02:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 02:16	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 02:16	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 02:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 02:16	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 02:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 02:16	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 02:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 02:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 02:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 02:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 02:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 02:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 02:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 02:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 02:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 02:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 02:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 02:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 02:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 02:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 02:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 02:16	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 02:16	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 02:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 02:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 02:16	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 02:16	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 02:16	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 02:16	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 02:16	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 02:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 02:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 02:16	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Sample: Trip Blank 2 **Lab ID: 92508536021** Collected: 11/30/20 00:00 Received: 11/30/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 02:16	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 02:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 02:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 02:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 02:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 02:16	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 02:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 02:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 02:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 02:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 02:16	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 02:16	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 02:16	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 02:16	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/03/20 02:16	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/03/20 02:16	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/03/20 02:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

QC Batch: 1586532 Analysis Method: MADEP VPH
QC Batch Method: MADEPV Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508536001, 92508536002, 92508536003, 92508536004, 92508536005, 92508536006, 92508536007, 92508536008, 92508536009, 92508536010, 92508536012, 92508536013, 92508536014, 92508536015, 92508536016, 92508536017, 92508536018, 92508536019, 92508536020

METHOD BLANK: R3601465-3 Matrix: Water
Associated Lab Samples: 92508536001, 92508536002, 92508536003, 92508536004, 92508536005, 92508536006, 92508536007, 92508536008, 92508536009, 92508536010, 92508536012, 92508536013, 92508536014, 92508536015, 92508536016, 92508536017, 92508536018, 92508536019, 92508536020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/03/20 22:27	
Aliphatic (C09-C12)	ug/L	ND	100	12/03/20 22:27	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/03/20 22:27	
Total VPH	ug/L	ND	100	12/03/20 22:27	
2,5-Dibromotoluene (FID)	%	85	70.0-130	12/03/20 22:27	
2,5-Dibromotoluene (PID)	%	79.6	70.0-130	12/03/20 22:27	

METHOD BLANK: R3601465-4 Matrix: Water
Associated Lab Samples: 92508536001, 92508536002, 92508536003, 92508536004, 92508536005, 92508536006, 92508536007, 92508536008, 92508536009, 92508536010, 92508536012, 92508536013, 92508536014, 92508536015, 92508536016, 92508536017, 92508536018, 92508536019, 92508536020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/04/20 08:55	
Aliphatic (C09-C12)	ug/L	ND	100	12/04/20 08:55	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/04/20 08:55	
Total VPH	ug/L	ND	100	12/04/20 08:55	
2,5-Dibromotoluene (FID)	%	79.8	70.0-130	12/04/20 08:55	
2,5-Dibromotoluene (PID)	%	73.1	70.0-130	12/04/20 08:55	

LABORATORY CONTROL SAMPLE & LCSD: R3601465-1 R3601465-2

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	1180	95.0	98.3	70.0-130	3.45	25	
Aliphatic (C09-C12)	ug/L	1400	1410	1470	101	105	70.0-130	4.17	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	188	192	94.0	96.0	70.0-130	2.11	25	
Total VPH	ug/L	2800	2740	2840	97.9	101	70.0-130	3.58	25	
2,5-Dibromotoluene (FID)	%				86.1	85.7	70.0-130			
2,5-Dibromotoluene (PID)	%				81.5	81.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

QC Batch: 583785 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92508536001, 92508536002, 92508536003, 92508536004, 92508536005, 92508536006, 92508536007

METHOD BLANK: 3086468 Matrix: Water
Associated Lab Samples: 92508536001, 92508536002, 92508536003, 92508536004, 92508536005, 92508536006, 92508536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/07/20 02:13	

LABORATORY CONTROL SAMPLE: 3086469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	252	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3086493 3086494

Parameter	Units	92508001016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	8.4	250	250	261	251	101	97	75-125	4	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

QC Batch: 584116 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92508536008, 92508536009, 92508536012, 92508536013, 92508536014, 92508536015, 92508536016, 92508536017, 92508536018, 92508536019, 92508536020

METHOD BLANK: 3088063 Matrix: Water
Associated Lab Samples: 92508536008, 92508536009, 92508536012, 92508536013, 92508536014, 92508536015, 92508536016, 92508536017, 92508536018, 92508536019, 92508536020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/06/20 20:05	

LABORATORY CONTROL SAMPLE: 3088064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	251	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088065 3088066

Parameter	Units	92508536008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	28.9	250	250	267	262	95	93	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

QC Batch: 583931 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508536001, 92508536002, 92508536003, 92508536004

METHOD BLANK: 3086966 Matrix: Water

Associated Lab Samples: 92508536001, 92508536002, 92508536003, 92508536004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/02/20 13:27	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/02/20 13:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/02/20 13:27	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/02/20 13:27	
1,1-Dichloroethane	ug/L	ND	0.50	12/02/20 13:27	
1,1-Dichloroethene	ug/L	ND	0.50	12/02/20 13:27	
1,1-Dichloropropene	ug/L	ND	0.50	12/02/20 13:27	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/02/20 13:27	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/02/20 13:27	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/02/20 13:27	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/02/20 13:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/02/20 13:27	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/02/20 13:27	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/02/20 13:27	
1,2-Dichloroethane	ug/L	ND	0.50	12/02/20 13:27	
1,2-Dichloropropane	ug/L	ND	0.50	12/02/20 13:27	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/02/20 13:27	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/02/20 13:27	
1,3-Dichloropropane	ug/L	ND	0.50	12/02/20 13:27	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/02/20 13:27	
2,2-Dichloropropane	ug/L	ND	0.50	12/02/20 13:27	
2-Chlorotoluene	ug/L	ND	0.50	12/02/20 13:27	
4-Chlorotoluene	ug/L	ND	0.50	12/02/20 13:27	
Benzene	ug/L	ND	0.50	12/02/20 13:27	
Bromobenzene	ug/L	ND	0.50	12/02/20 13:27	
Bromochloromethane	ug/L	ND	0.50	12/02/20 13:27	
Bromodichloromethane	ug/L	ND	0.50	12/02/20 13:27	
Bromoform	ug/L	ND	0.50	12/02/20 13:27	
Bromomethane	ug/L	ND	5.0	12/02/20 13:27	
Carbon tetrachloride	ug/L	ND	0.50	12/02/20 13:27	
Chlorobenzene	ug/L	ND	0.50	12/02/20 13:27	
Chloroethane	ug/L	ND	1.0	12/02/20 13:27	
Chloroform	ug/L	ND	0.50	12/02/20 13:27	
Chloromethane	ug/L	ND	1.0	12/02/20 13:27	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/02/20 13:27	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/02/20 13:27	
Dibromochloromethane	ug/L	ND	0.50	12/02/20 13:27	
Dibromomethane	ug/L	ND	0.50	12/02/20 13:27	
Dichlorodifluoromethane	ug/L	ND	0.50	12/02/20 13:27	
Diisopropyl ether	ug/L	ND	0.50	12/02/20 13:27	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

METHOD BLANK: 3086966 Matrix: Water
Associated Lab Samples: 92508536001, 92508536002, 92508536003, 92508536004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/02/20 13:27	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/02/20 13:27	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/02/20 13:27	
m&p-Xylene	ug/L	ND	1.0	12/02/20 13:27	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/02/20 13:27	
Methylene Chloride	ug/L	ND	2.0	12/02/20 13:27	
n-Butylbenzene	ug/L	ND	0.50	12/02/20 13:27	
n-Propylbenzene	ug/L	ND	0.50	12/02/20 13:27	
Naphthalene	ug/L	ND	2.0	12/02/20 13:27	
o-Xylene	ug/L	ND	0.50	12/02/20 13:27	
sec-Butylbenzene	ug/L	ND	0.50	12/02/20 13:27	
Styrene	ug/L	ND	0.50	12/02/20 13:27	
tert-Butylbenzene	ug/L	ND	0.50	12/02/20 13:27	
Tetrachloroethene	ug/L	ND	0.50	12/02/20 13:27	
Toluene	ug/L	ND	0.50	12/02/20 13:27	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/02/20 13:27	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/02/20 13:27	
Trichloroethene	ug/L	ND	0.50	12/02/20 13:27	
Trichlorofluoromethane	ug/L	ND	1.0	12/02/20 13:27	
Vinyl chloride	ug/L	ND	1.0	12/02/20 13:27	
1,2-Dichloroethane-d4 (S)	%	91	70-130	12/02/20 13:27	
4-Bromofluorobenzene (S)	%	94	70-130	12/02/20 13:27	
Toluene-d8 (S)	%	101	70-130	12/02/20 13:27	

LABORATORY CONTROL SAMPLE: 3086967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.3	91	60-140	
1,1,1-Trichloroethane	ug/L	50	43.6	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	60-140	
1,1,2-Trichloroethane	ug/L	50	45.2	90	60-140	
1,1-Dichloroethane	ug/L	50	46.3	93	60-140	
1,1-Dichloroethene	ug/L	50	43.6	87	60-140	
1,1-Dichloropropene	ug/L	50	46.8	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.8	96	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.0	94	60-140	
1,2,4-Trimethylbenzene	ug/L	50	42.7	85	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.7	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	47.7	95	60-140	
1,2-Dichlorobenzene	ug/L	50	45.0	90	60-140	
1,2-Dichloroethane	ug/L	50	39.2	78	60-140	
1,2-Dichloropropane	ug/L	50	47.4	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

LABORATORY CONTROL SAMPLE: 3086967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	45.0	90	60-140	
1,3-Dichloropropane	ug/L	50	49.2	98	60-140	
1,4-Dichlorobenzene	ug/L	50	45.5	91	60-140	
2,2-Dichloropropane	ug/L	50	45.0	90	60-140	
2-Chlorotoluene	ug/L	50	45.2	90	60-140	
4-Chlorotoluene	ug/L	50	43.6	87	60-140	
Benzene	ug/L	50	45.4	91	60-140	
Bromobenzene	ug/L	50	45.0	90	60-140	
Bromochloromethane	ug/L	50	48.0	96	60-140	
Bromodichloromethane	ug/L	50	42.4	85	60-140	
Bromoform	ug/L	50	42.4	85	60-140	
Bromomethane	ug/L	50	43.2	86	60-140	
Carbon tetrachloride	ug/L	50	41.0	82	60-140	
Chlorobenzene	ug/L	50	45.2	90	60-140	
Chloroethane	ug/L	50	37.6	75	60-140	
Chloroform	ug/L	50	43.4	87	60-140	
Chloromethane	ug/L	50	39.7	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	43.1	86	60-140	
cis-1,3-Dichloropropene	ug/L	50	47.1	94	60-140	
Dibromochloromethane	ug/L	50	48.2	96	60-140	
Dibromomethane	ug/L	50	43.4	87	60-140	
Dichlorodifluoromethane	ug/L	50	38.1	76	60-140	
Diisopropyl ether	ug/L	50	45.3	91	60-140	
Ethylbenzene	ug/L	50	44.2	88	60-140	
Hexachloro-1,3-butadiene	ug/L	50	45.6	91	60-140	
Isopropylbenzene (Cumene)	ug/L	50	45.2	90	60-140	
m&p-Xylene	ug/L	100	87.9	88	60-140	
Methyl-tert-butyl ether	ug/L	50	46.5	93	60-140	
Methylene Chloride	ug/L	50	42.9	86	60-140	
n-Butylbenzene	ug/L	50	46.1	92	60-140	
n-Propylbenzene	ug/L	50	44.9	90	60-140	
Naphthalene	ug/L	50	51.4	103	60-140	
o-Xylene	ug/L	50	46.3	93	60-140	
sec-Butylbenzene	ug/L	50	45.5	91	60-140	
Styrene	ug/L	50	47.1	94	60-140	
tert-Butylbenzene	ug/L	50	38.1	76	60-140	
Tetrachloroethene	ug/L	50	43.8	88	60-140	
Toluene	ug/L	50	43.4	87	60-140	
trans-1,2-Dichloroethene	ug/L	50	45.2	90	60-140	
trans-1,3-Dichloropropene	ug/L	50	44.2	88	60-140	
Trichloroethene	ug/L	50	43.7	87	60-140	
Trichlorofluoromethane	ug/L	50	37.6	75	60-140	
Vinyl chloride	ug/L	50	40.7	81	60-140	
1,2-Dichloroethane-d4 (S)	%			91	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3086968 3086969

Parameter	Units	92508282001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	479	480	96	96	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	500	500	470	472	94	94	60-140	0	
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	543	488	109	98	60-140	11	
1,1,2-Trichloroethane	ug/L	ND	500	500	419	454	84	91	60-140	8	
1,1-Dichloroethane	ug/L	ND	500	500	455	476	91	95	60-140	4	
1,1-Dichloroethene	ug/L	ND	500	500	465	468	93	94	60-140	0	
1,1-Dichloropropene	ug/L	ND	500	500	468	489	94	98	60-140	4	
1,2,3-Trichlorobenzene	ug/L	ND	500	500	403	443	81	89	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	500	500	486	460	97	92	60-140	6	
1,2,4-Trichlorobenzene	ug/L	ND	500	500	405	429	81	86	60-140	6	
1,2,4-Trimethylbenzene	ug/L	1100	500	500	1560	1500	93	80	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	454	479	91	96	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	477	494	95	99	60-140	4	
1,2-Dichlorobenzene	ug/L	ND	500	500	421	445	84	89	60-140	6	
1,2-Dichloroethane	ug/L	ND	500	500	414	409	83	82	60-140	1	
1,2-Dichloropropane	ug/L	ND	500	500	480	488	96	98	60-140	2	
1,3,5-Trimethylbenzene	ug/L	316	500	500	742	756	85	88	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	500	500	453	461	91	92	60-140	2	
1,3-Dichloropropane	ug/L	ND	500	500	496	483	99	97	60-140	2	
1,4-Dichlorobenzene	ug/L	ND	500	500	444	461	89	92	60-140	4	
2,2-Dichloropropane	ug/L	ND	500	500	430	413	86	83	60-140	4	
2-Chlorotoluene	ug/L	ND	500	500	504	535	101	107	60-140	6	
4-Chlorotoluene	ug/L	ND	500	500	443	449	89	90	60-140	1	
Benzene	ug/L	707	500	500	1150	1200	88	98	60-140	4	
Bromobenzene	ug/L	ND	500	500	440	472	88	94	60-140	7	
Bromochloromethane	ug/L	ND	500	500	485	473	97	95	60-140	3	
Bromodichloromethane	ug/L	ND	500	500	428	439	86	88	60-140	3	
Bromoform	ug/L	ND	500	500	433	429	87	86	60-140	1	
Bromomethane	ug/L	ND	500	500	374	417	75	83	60-140	11	
Carbon tetrachloride	ug/L	ND	500	500	429	456	86	91	60-140	6	
Chlorobenzene	ug/L	ND	500	500	471	480	94	96	60-140	2	
Chloroethane	ug/L	ND	500	500	467	474	93	95	60-140	1	
Chloroform	ug/L	ND	500	500	477	472	95	94	60-140	1	
Chloromethane	ug/L	ND	500	500	423	441	85	88	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	500	500	458	438	92	88	60-140	5	
cis-1,3-Dichloropropene	ug/L	ND	500	500	470	462	94	92	60-140	2	
Dibromochloromethane	ug/L	ND	500	500	493	489	99	98	60-140	1	
Dibromomethane	ug/L	ND	500	500	440	438	88	88	60-140	0	
Dichlorodifluoromethane	ug/L	ND	500	500	405	404	81	81	60-140	0	
Diisopropyl ether	ug/L	ND	500	500	430	447	86	89	60-140	4	
Ethylbenzene	ug/L	1840	500	500	2300	2370	93	107	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	500	500	363	376	73	75	60-140	4	
Isopropylbenzene (Cumene)	ug/L	56.2	500	500	548	545	98	98	60-140	0	
m&p-Xylene	ug/L	3630	1000	1000	4660	4700	103	107	60-140	1	
Methyl-tert-butyl ether	ug/L	ND	500	500	471	456	94	91	60-140	3	
Methylene Chloride	ug/L	ND	500	500	447	425	89	85	60-140	5	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3086968 3086969

Parameter	Units	92508282001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	500	500	421	441	84	88	60-140	5	
n-Propylbenzene	ug/L	ND	500	500	557	592	111	118	60-140	6	
Naphthalene	ug/L	554	500	500	934	1020	76	94	60-140	9	
o-Xylene	ug/L	979	500	500	1450	1500	94	105	60-140	4	
sec-Butylbenzene	ug/L	ND	500	500	490	468	98	94	60-140	5	
Styrene	ug/L	63.5	500	500	544	567	96	101	60-140	4	
tert-Butylbenzene	ug/L	ND	500	500	419	400	84	80	60-140	5	
Tetrachloroethene	ug/L	ND	500	500	485	483	97	97	60-140	0	
Toluene	ug/L	3610	500	500	3820	3980	42	73	60-140	4	M1
trans-1,2-Dichloroethene	ug/L	ND	500	500	477	471	95	94	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	500	500	399	426	80	85	60-140	7	
Trichloroethene	ug/L	ND	500	500	464	472	93	94	60-140	2	
Trichlorofluoromethane	ug/L	ND	500	500	442	452	88	90	60-140	2	
Vinyl chloride	ug/L	ND	500	500	444	451	89	90	60-140	2	
1,2-Dichloroethane-d4 (S)	%						95	96	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						95	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

QC Batch: 583992 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508536005, 92508536006, 92508536007, 92508536008, 92508536009, 92508536010, 92508536011, 92508536012, 92508536013, 92508536014, 92508536015, 92508536016, 92508536017, 92508536018, 92508536019, 92508536020, 92508536021

METHOD BLANK: 3087322 Matrix: Water

Associated Lab Samples: 92508536005, 92508536006, 92508536007, 92508536008, 92508536009, 92508536010, 92508536011, 92508536012, 92508536013, 92508536014, 92508536015, 92508536016, 92508536017, 92508536018, 92508536019, 92508536020, 92508536021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 01:22	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/03/20 01:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 01:22	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/03/20 01:22	
1,1-Dichloroethane	ug/L	ND	0.50	12/03/20 01:22	
1,1-Dichloroethene	ug/L	ND	0.50	12/03/20 01:22	
1,1-Dichloropropene	ug/L	ND	0.50	12/03/20 01:22	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/03/20 01:22	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/03/20 01:22	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/03/20 01:22	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/03/20 01:22	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/03/20 01:22	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/03/20 01:22	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/03/20 01:22	
1,2-Dichloroethane	ug/L	ND	0.50	12/03/20 01:22	
1,2-Dichloropropane	ug/L	ND	0.50	12/03/20 01:22	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/03/20 01:22	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/03/20 01:22	
1,3-Dichloropropane	ug/L	ND	0.50	12/03/20 01:22	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/03/20 01:22	
2,2-Dichloropropane	ug/L	ND	0.50	12/03/20 01:22	
2-Chlorotoluene	ug/L	ND	0.50	12/03/20 01:22	
4-Chlorotoluene	ug/L	ND	0.50	12/03/20 01:22	
Benzene	ug/L	ND	0.50	12/03/20 01:22	
Bromobenzene	ug/L	ND	0.50	12/03/20 01:22	
Bromochloromethane	ug/L	ND	0.50	12/03/20 01:22	
Bromodichloromethane	ug/L	ND	0.50	12/03/20 01:22	
Bromoform	ug/L	ND	0.50	12/03/20 01:22	
Bromomethane	ug/L	ND	5.0	12/03/20 01:22	
Carbon tetrachloride	ug/L	ND	0.50	12/03/20 01:22	
Chlorobenzene	ug/L	ND	0.50	12/03/20 01:22	
Chloroethane	ug/L	ND	1.0	12/03/20 01:22	
Chloroform	ug/L	ND	0.50	12/03/20 01:22	
Chloromethane	ug/L	ND	1.0	12/03/20 01:22	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 01:22	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 01:22	
Dibromochloromethane	ug/L	ND	0.50	12/03/20 01:22	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

METHOD BLANK: 3087322 Matrix: Water

Associated Lab Samples: 92508536005, 92508536006, 92508536007, 92508536008, 92508536009, 92508536010, 92508536011, 92508536012, 92508536013, 92508536014, 92508536015, 92508536016, 92508536017, 92508536018, 92508536019, 92508536020, 92508536021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	0.50	12/03/20 01:22	
Dichlorodifluoromethane	ug/L	ND	0.50	12/03/20 01:22	
Diisopropyl ether	ug/L	ND	0.50	12/03/20 01:22	
Ethylbenzene	ug/L	ND	0.50	12/03/20 01:22	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/03/20 01:22	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/03/20 01:22	
m&p-Xylene	ug/L	ND	1.0	12/03/20 01:22	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/03/20 01:22	
Methylene Chloride	ug/L	ND	2.0	12/03/20 01:22	
n-Butylbenzene	ug/L	ND	0.50	12/03/20 01:22	
n-Propylbenzene	ug/L	ND	0.50	12/03/20 01:22	
Naphthalene	ug/L	ND	2.0	12/03/20 01:22	
o-Xylene	ug/L	ND	0.50	12/03/20 01:22	
sec-Butylbenzene	ug/L	ND	0.50	12/03/20 01:22	
Styrene	ug/L	ND	0.50	12/03/20 01:22	
tert-Butylbenzene	ug/L	ND	0.50	12/03/20 01:22	
Tetrachloroethene	ug/L	ND	0.50	12/03/20 01:22	
Toluene	ug/L	ND	0.50	12/03/20 01:22	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 01:22	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 01:22	
Trichloroethene	ug/L	ND	0.50	12/03/20 01:22	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/20 01:22	
Vinyl chloride	ug/L	ND	1.0	12/03/20 01:22	
1,2-Dichloroethane-d4 (S)	%	94	70-130	12/03/20 01:22	
4-Bromofluorobenzene (S)	%	96	70-130	12/03/20 01:22	
Toluene-d8 (S)	%	100	70-130	12/03/20 01:22	

LABORATORY CONTROL SAMPLE: 3087323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.4	93	60-140	
1,1,1-Trichloroethane	ug/L	50	43.6	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	46.4	93	60-140	
1,1,2-Trichloroethane	ug/L	50	44.1	88	60-140	
1,1-Dichloroethane	ug/L	50	40.3	81	60-140	
1,1-Dichloroethene	ug/L	50	41.0	82	60-140	
1,1-Dichloropropene	ug/L	50	45.9	92	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.3	95	60-140	
1,2,3-Trichloropropane	ug/L	50	43.7	87	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.5	87	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.0	102	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

LABORATORY CONTROL SAMPLE: 3087323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	60-140	
1,2-Dichlorobenzene	ug/L	50	45.1	90	60-140	
1,2-Dichloroethane	ug/L	50	38.7	77	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	
1,3-Dichlorobenzene	ug/L	50	45.5	91	60-140	
1,3-Dichloropropane	ug/L	50	48.8	98	60-140	
1,4-Dichlorobenzene	ug/L	50	46.0	92	60-140	
2,2-Dichloropropane	ug/L	50	37.6	75	60-140	
2-Chlorotoluene	ug/L	50	45.0	90	60-140	
4-Chlorotoluene	ug/L	50	43.7	87	60-140	
Benzene	ug/L	50	46.9	94	60-140	
Bromobenzene	ug/L	50	46.1	92	60-140	
Bromochloromethane	ug/L	50	40.1	80	60-140	
Bromodichloromethane	ug/L	50	43.7	87	60-140	
Bromoform	ug/L	50	45.0	90	60-140	
Bromomethane	ug/L	50	44.9	90	60-140	
Carbon tetrachloride	ug/L	50	38.9	78	60-140	
Chlorobenzene	ug/L	50	46.1	92	60-140	
Chloroethane	ug/L	50	37.6	75	60-140	
Chloroform	ug/L	50	38.7	77	60-140	
Chloromethane	ug/L	50	38.5	77	60-140	
cis-1,2-Dichloroethene	ug/L	50	36.7	73	60-140	
cis-1,3-Dichloropropene	ug/L	50	46.8	94	60-140	
Dibromochloromethane	ug/L	50	49.6	99	60-140	
Dibromomethane	ug/L	50	44.8	90	60-140	
Dichlorodifluoromethane	ug/L	50	39.8	80	60-140	
Diisopropyl ether	ug/L	50	37.5	75	60-140	
Ethylbenzene	ug/L	50	45.4	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	46.1	92	60-140	
Isopropylbenzene (Cumene)	ug/L	50	46.6	93	60-140	
m&p-Xylene	ug/L	100	90.0	90	60-140	
Methyl-tert-butyl ether	ug/L	50	40.8	82	60-140	
Methylene Chloride	ug/L	50	37.0	74	60-140	
n-Butylbenzene	ug/L	50	45.6	91	60-140	
n-Propylbenzene	ug/L	50	44.6	89	60-140	
Naphthalene	ug/L	50	50.2	100	60-140	
o-Xylene	ug/L	50	46.6	93	60-140	
sec-Butylbenzene	ug/L	50	44.5	89	60-140	
Styrene	ug/L	50	47.6	95	60-140	
tert-Butylbenzene	ug/L	50	38.1	76	60-140	
Tetrachloroethene	ug/L	50	45.1	90	60-140	
Toluene	ug/L	50	43.3	87	60-140	
trans-1,2-Dichloroethene	ug/L	50	40.7	81	60-140	
trans-1,3-Dichloropropene	ug/L	50	44.6	89	60-140	
Trichloroethene	ug/L	50	45.2	90	60-140	
Trichlorofluoromethane	ug/L	50	38.0	76	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

LABORATORY CONTROL SAMPLE: 3087323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	37.5	75	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3087324 3087325

Parameter	Units	92508536005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.1	18.3	100	92	60-140	9	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.5	20.9	107	105	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.8	16.7	99	83	60-140	17	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.3	16.2	116	81	60-140	36	R1
1,1-Dichloroethane	ug/L	ND	20	20	21.5	21.9	107	110	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	22.1	20.4	111	102	60-140	8	
1,1-Dichloropropene	ug/L	ND	20	20	21.7	21.6	108	108	60-140	0	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.3	21.1	107	105	60-140	1	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.8	18.0	94	90	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.0	23.1	105	115	60-140	9	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.3	17.7	102	89	60-140	13	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.1	19.4	100	97	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.9	19.3	105	96	60-140	8	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.8	19.1	94	96	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	19.5	16.5	98	82	60-140	17	
1,2-Dichloropropane	ug/L	ND	20	20	20.5	17.8	103	89	60-140	14	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.5	21.1	107	106	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	18.4	101	92	60-140	9	
1,3-Dichloropropane	ug/L	ND	20	20	21.2	21.7	106	109	60-140	2	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.1	18.9	101	94	60-140	6	
2,2-Dichloropropane	ug/L	ND	20	20	23.0	19.1	115	95	60-140	19	
2-Chlorotoluene	ug/L	ND	20	20	21.9	20.5	109	102	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	21.2	18.1	106	90	60-140	16	
Benzene	ug/L	ND	20	20	19.9	17.2	100	86	60-140	15	
Bromobenzene	ug/L	ND	20	20	22.2	20.1	111	101	60-140	10	
Bromochloromethane	ug/L	ND	20	20	22.8	19.1	114	95	60-140	18	
Bromodichloromethane	ug/L	ND	20	20	20.4	16.6	102	83	60-140	21	
Bromoform	ug/L	ND	20	20	17.5	19.0	88	95	60-140	8	
Bromomethane	ug/L	ND	20	20	22.6	22.5	113	113	60-140	0	
Carbon tetrachloride	ug/L	ND	20	20	20.5	16.8	103	84	60-140	20	
Chlorobenzene	ug/L	ND	20	20	20.2	18.6	101	93	60-140	8	
Chloroethane	ug/L	ND	20	20	20.2	20.1	101	101	60-140	0	
Chloroform	ug/L	ND	20	20	20.5	18.3	103	91	60-140	12	
Chloromethane	ug/L	ND	20	20	18.4	16.0	92	80	60-140	14	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.0	17.8	110	89	60-140	21	
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.8	17.9	124	89	60-140	33	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3087324 3087325

Parameter	Units	92508536005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Dibromochloromethane	ug/L	ND	20	20	20.7	19.3	103	97	60-140	7	
Dibromomethane	ug/L	ND	20	20	19.0	16.0	95	80	60-140	17	
Dichlorodifluoromethane	ug/L	ND	20	20	17.7	14.8	89	74	60-140	18	
Diisopropyl ether	ug/L	ND	20	20	18.8	19.9	94	99	60-140	6	
Ethylbenzene	ug/L	ND	20	20	20.6	19.8	103	99	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.0	21.7	115	109	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.4	21.4	102	107	60-140	5	
m&p-Xylene	ug/L	ND	40	40	40.5	41.2	101	103	60-140	2	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.6	17.4	108	87	60-140	21	
Methylene Chloride	ug/L	ND	20	20	19.8	14.6	99	73	60-140	30	
n-Butylbenzene	ug/L	ND	20	20	20.4	19.6	102	98	60-140	4	
n-Propylbenzene	ug/L	ND	20	20	22.5	19.9	113	100	60-140	12	
Naphthalene	ug/L	ND	20	20	22.1	19.3	110	96	60-140	13	
o-Xylene	ug/L	ND	20	20	20.8	22.1	104	111	60-140	6	
sec-Butylbenzene	ug/L	ND	20	20	21.7	19.7	108	98	60-140	10	
Styrene	ug/L	ND	20	20	20.3	21.7	102	108	60-140	6	
tert-Butylbenzene	ug/L	ND	20	20	18.5	17.8	93	89	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	20.8	17.8	104	89	60-140	15	
Toluene	ug/L	ND	20	20	23.9	16.6	119	83	60-140	36	R1
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.5	19.3	112	96	60-140	15	
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.8	16.1	114	80	60-140	35	R1
Trichloroethene	ug/L	ND	20	20	20.2	17.6	101	88	60-140	13	
Trichlorofluoromethane	ug/L	ND	20	20	20.8	19.4	104	97	60-140	7	
Vinyl chloride	ug/L	ND	20	20	18.5	17.8	92	89	60-140	4	
1,2-Dichloroethane-d4 (S)	%						102	90	70-130		
4-Bromofluorobenzene (S)	%						95	95	70-130		
Toluene-d8 (S)	%						118	94	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508536001	MW-01	MADEPV	1586532	MADEP VPH	1586532
92508536002	MW-02	MADEPV	1586532	MADEP VPH	1586532
92508536003	MW-04	MADEPV	1586532	MADEP VPH	1586532
92508536004	MW-05	MADEPV	1586532	MADEP VPH	1586532
92508536005	MW-06	MADEPV	1586532	MADEP VPH	1586532
92508536006	MW-09	MADEPV	1586532	MADEP VPH	1586532
92508536007	MW-12	MADEPV	1586532	MADEP VPH	1586532
92508536008	MW-15	MADEPV	1586532	MADEP VPH	1586532
92508536009	MW-30	MADEPV	1586532	MADEP VPH	1586532
92508536010	FB-01-20201130	MADEPV	1586532	MADEP VPH	1586532
92508536012	MW-34	MADEPV	1586532	MADEP VPH	1586532
92508536013	MW-33	MADEPV	1586532	MADEP VPH	1586532
92508536014	MW-32	MADEPV	1586532	MADEP VPH	1586532
92508536015	MW-7	MADEPV	1586532	MADEP VPH	1586532
92508536016	MW-27	MADEPV	1586532	MADEP VPH	1586532
92508536017	MW-3	MADEPV	1586532	MADEP VPH	1586532
92508536018	MW-35	MADEPV	1586532	MADEP VPH	1586532
92508536019	MW-36	MADEPV	1586532	MADEP VPH	1586532
92508536020	MW-37	MADEPV	1586532	MADEP VPH	1586532
92508536001	MW-01	EPA 3010A	583785	EPA 6010D	583815
92508536002	MW-02	EPA 3010A	583785	EPA 6010D	583815
92508536003	MW-04	EPA 3010A	583785	EPA 6010D	583815
92508536004	MW-05	EPA 3010A	583785	EPA 6010D	583815
92508536005	MW-06	EPA 3010A	583785	EPA 6010D	583815
92508536006	MW-09	EPA 3010A	583785	EPA 6010D	583815
92508536007	MW-12	EPA 3010A	583785	EPA 6010D	583815
92508536008	MW-15	EPA 3010A	584116	EPA 6010D	584145
92508536009	MW-30	EPA 3010A	584116	EPA 6010D	584145
92508536012	MW-34	EPA 3010A	584116	EPA 6010D	584145
92508536013	MW-33	EPA 3010A	584116	EPA 6010D	584145
92508536014	MW-32	EPA 3010A	584116	EPA 6010D	584145
92508536015	MW-7	EPA 3010A	584116	EPA 6010D	584145
92508536016	MW-27	EPA 3010A	584116	EPA 6010D	584145
92508536017	MW-3	EPA 3010A	584116	EPA 6010D	584145
92508536018	MW-35	EPA 3010A	584116	EPA 6010D	584145
92508536019	MW-36	EPA 3010A	584116	EPA 6010D	584145
92508536020	MW-37	EPA 3010A	584116	EPA 6010D	584145
92508536001	MW-01	SM 6200B	583931		
92508536002	MW-02	SM 6200B	583931		
92508536003	MW-04	SM 6200B	583931		
92508536004	MW-05	SM 6200B	583931		
92508536005	MW-06	SM 6200B	583992		
92508536006	MW-09	SM 6200B	583992		
92508536007	MW-12	SM 6200B	583992		
92508536008	MW-15	SM 6200B	583992		
92508536009	MW-30	SM 6200B	583992		
92508536010	FB-01-20201130	SM 6200B	583992		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (11/30)
Pace Project No.: 92508536

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508536011	**Trip Blank**	SM 6200B	583992		
92508536012	**MW-34**	SM 6200B	583992		
92508536013	**MW-33**	SM 6200B	583992		
92508536014	**MW-32**	SM 6200B	583992		
92508536015	**MW-7**	SM 6200B	583992		
92508536016	**MW-27**	SM 6200B	583992		
92508536017	**MW-3**	SM 6200B	583992		
92508536018	**MW-35**	SM 6200B	583992		
92508536019	**MW-36**	SM 6200B	583992		
92508536020	**MW-37**	SM 6200B	583992		
92508536021	**Trip Blank 2**	SM 6200B	583992		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project: WO# : 92508536

92508536

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ Other:____ ☐ USPS ☒ Client

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 11/30/20 DO

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: 4.0 / 3.9 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.8 / 3.9

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☐ N/A	10.
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ 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.**

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

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

Project # **WO# : 92508536**

PM: NMG Due Date: 12/07/20

CLIENT: 92-AECOM CHA

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									\	\			
3	\				\	1 ✓	\	\		\	\		\	\	\	7									\	\			
4	\				\	1 ✓	\	\		\	\		\	\	\	7									\	\			
5	\				\	1 ✓	\	\		\	\		\	\	\	7									\	\			
6	\				\	1 ✓	\	\		\	\		\	\	\	7									\	\			
7	\				\	1 ✓	\	\		\	\		\	\	\	7									\	\			
8	\				\	1 ✓	\	\		\	\		\	\	\	7									\	\			
9	\				\	1 ✓	\	\		\	\		\	\	\	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.

***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# : 92508536**

PM: NMG Due Date: 12/07/20

CLIENT: 92-AECOM CHA

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													
3						1										7													
4						1										7													
5						1										7													
6						1										7													
7						1										7													
8						1										7													
9						1										7													
10																2													
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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	AECOM	Report To:	Andrew Wreschnig	Attention:	
Address:	6000 Fairview Road	Copy To:		Company Name:	
Suite 200, Charlotte, NC 28226				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone: (704)522-0330	Fax	Project Name:	Colonial Pipeline	Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	12518-3

Regulatory Agency	
State / Location	NC

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: 6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	92508536
1	MW-01					11/30/20	0935		8			1	7						X	X	X			001
2	MW-02						1220																	002
3	MW-04						1440																	003
4	MW-05						0920																	004
5	MW-06						1145																	005
6	MW-09						1100																	006
7	MW-12						1420																	007
8	MW-15						1520																	008
9	MW-30						1030																	009
10	FB-01-20201130						1620		7											L				010
11	Trip Blank						—		2				2										X	
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	AECOM	11/30/20	1630	JD PACE HN	11/30/20	1630	3.5	Y	N	Y

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Jim Dimitroff				
SIGNATURE of SAMPLER:		DATE Signed:	11/30/2020		

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical
WWW.PACELABS.COM

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
Email:	
Phone:	(704)522-0330 Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	Andrew Wreschnig
Copy To:	
Purchase Order #:	
Project Name:	Colonial Pipeline
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Pace Profile #:	12518-3

Regulatory Agency:

State / Location: NC

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): 6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	92505536
1	mw-34	WT	G	11/30	0935				8			1	7												01
2	mw-33	WT	G	11/30	1000							1	7												02
3	mw-32	WT	G	11/30	1030							1	7												03
4	mw-7	WT	G	11/30	1200							1	7												04
5	mw-27	WT	G	11/30	1220							1	7												05
6	mw-3	WT	G	11/30	1100							1	7												06
7	mw-35	WT	G	11/30	1445							1	7												07
8	mw-36	WT	G	11/30	1515							1	7												08
9	mw-37	WT	G	11/30	1545							1	7												09
10	Trip Blank 2	WT	G	11/30	—				2				2										X		020
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Emily R. Love / AECOM	11/30	1630	FED PACE MM	11/30/20	1630	3.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emily Love

SIGNATURE of SAMPLER: Emily R Love

DATE Signed: 11/30/2020

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 10, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508881001	**MW-18**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508881002	**MW-20**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508881003	**MW-25**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508881004	**MW-52**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508881005	**MW-58**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508881006	**MW-59**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508881007	**FB-1-20201201**	MADEP VPH	BMB	6	PAN
		SM 6200B	SAS	63	PASI-C
92508881008	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-18 **Lab ID: 92508881001** Collected: 12/01/20 08:45 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**987**	ug/L	100	1	12/06/20 02:40	12/06/20 02:40		
Aliphatic (C09-C12)	**155**	ug/L	100	1	12/06/20 02:40	12/06/20 02:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 21:35	12/09/20 21:35	TPHC9C10A	
Total VPH	**1180**	ug/L	100	1	12/06/20 02:40	12/06/20 02:40	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	82.8	%	70.0-130	1	12/06/20 02:40	12/06/20 02:40	615-59-8FID	
2,5-Dibromotoluene (FID)	102	%	70.0-130	1	12/09/20 21:35	12/09/20 21:35	615-59-8FID	
2,5-Dibromotoluene (PID)	77.3	%	70.0-130	1	12/06/20 02:40	12/06/20 02:40	615-59-8PID	
2,5-Dibromotoluene (PID)	103	%	70.0-130	1	12/09/20 21:35	12/09/20 21:35	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**38.6**	ug/L	5.0	1	12/07/20 11:53	12/08/20 08:30	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**65.9**	ug/L	0.50	1		12/04/20 02:12	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 02:12	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 02:12	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 02:12	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 02:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 02:12	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 02:12	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 02:12	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 02:12	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 02:12	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 02:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 02:12	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/04/20 02:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 02:12	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 02:12	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 02:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 02:12	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 02:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 02:12	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 02:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 02:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 02:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 02:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 02:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 02:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 02:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 02:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 02:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 02:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 02:12	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-18 **Lab ID: 92508881001** Collected: 12/01/20 08:45 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 02:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 02:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 02:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 02:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 02:12	10061-02-6	
Diisopropyl ether	**17.1**	ug/L	0.50	1		12/04/20 02:12	108-20-3	
Ethylbenzene	**9.0**	ug/L	0.50	1		12/04/20 02:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 02:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 02:12	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 02:12	75-09-2	
Methyl-tert-butyl ether	**4.9**	ug/L	0.50	1		12/04/20 02:12	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 02:12	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 02:12	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 02:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 02:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 02:12	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 02:12	127-18-4	
Toluene	**160**	ug/L	0.50	1		12/04/20 02:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 02:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 02:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 02:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 02:12	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 02:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 02:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 02:12	96-18-4	
1,2,4-Trimethylbenzene	**2.5**	ug/L	0.50	1		12/04/20 02:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 02:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 02:12	75-01-4	
m&p-Xylene	**26.4**	ug/L	1.0	1		12/04/20 02:12	179601-23-1	
o-Xylene	**18.2**	ug/L	0.50	1		12/04/20 02:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/04/20 02:12	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		12/04/20 02:12	460-00-4	
Toluene-d8 (S)	106	%	70-130	1		12/04/20 02:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-20 **Lab ID: 92508881002** Collected: 12/01/20 09:30 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/06/20 03:13	12/06/20 03:13		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/06/20 03:13	12/06/20 03:13		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 22:08	12/09/20 22:08	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/06/20 03:13	12/06/20 03:13	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.2	%	70.0-130	1	12/06/20 03:13	12/06/20 03:13	615-59-8FID	
2,5-Dibromotoluene (FID)	103	%	70.0-130	1	12/09/20 22:08	12/09/20 22:08	615-59-8FID	
2,5-Dibromotoluene (PID)	80.1	%	70.0-130	1	12/06/20 03:13	12/06/20 03:13	615-59-8PID	
2,5-Dibromotoluene (PID)	101	%	70.0-130	1	12/09/20 22:08	12/09/20 22:08	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**26.1**	ug/L	5.0	1	12/07/20 11:53	12/08/20 08:59	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 02:30	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 02:30	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 02:30	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 02:30	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 02:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 02:30	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 02:30	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 02:30	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 02:30	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 02:30	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 02:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 02:30	75-00-3	
Chloroform	**1.3**	ug/L	0.50	1		12/04/20 02:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 02:30	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 02:30	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 02:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 02:30	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 02:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 02:30	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 02:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 02:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 02:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 02:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 02:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 02:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 02:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 02:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 02:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 02:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 02:30	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-20 **Lab ID: 92508881002** Collected: 12/01/20 09:30 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 02:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 02:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 02:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 02:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 02:30	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 02:30	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 02:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 02:30	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 02:30	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 02:30	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 02:30	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 02:30	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 02:30	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 02:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 02:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 02:30	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 02:30	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 02:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 02:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 02:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 02:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 02:30	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 02:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 02:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 02:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 02:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 02:30	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 02:30	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 02:30	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 02:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		12/04/20 02:30	17060-07-0	
4-Bromofluorobenzene (S)	88	%	70-130	1		12/04/20 02:30	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/04/20 02:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-25 **Lab ID: 92508881003** Collected: 12/01/20 10:05 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/06/20 03:46	12/06/20 03:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/06/20 03:46	12/06/20 03:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 22:42	12/09/20 22:42	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/06/20 03:46	12/06/20 03:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	84.5	%	70.0-130	1	12/06/20 03:46	12/06/20 03:46	615-59-8FID	
2,5-Dibromotoluene (FID)	102	%	70.0-130	1	12/09/20 22:42	12/09/20 22:42	615-59-8FID	
2,5-Dibromotoluene (PID)	77.0	%	70.0-130	1	12/06/20 03:46	12/06/20 03:46	615-59-8PID	
2,5-Dibromotoluene (PID)	102	%	70.0-130	1	12/09/20 22:42	12/09/20 22:42	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**142**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:02	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 02:48	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 02:48	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 02:48	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 02:48	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 02:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 02:48	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 02:48	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 02:48	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 02:48	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 02:48	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 02:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 02:48	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/04/20 02:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 02:48	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 02:48	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 02:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 02:48	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 02:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 02:48	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 02:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 02:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 02:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 02:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 02:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 02:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 02:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 02:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 02:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 02:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 02:48	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-25 **Lab ID: 92508881003** Collected: 12/01/20 10:05 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 02:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 02:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 02:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 02:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 02:48	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 02:48	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 02:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 02:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 02:48	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 02:48	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 02:48	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 02:48	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 02:48	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 02:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 02:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 02:48	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 02:48	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 02:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 02:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 02:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 02:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 02:48	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 02:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 02:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 02:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 02:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 02:48	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 02:48	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 02:48	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 02:48	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/04/20 02:48	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/04/20 02:48	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		12/04/20 02:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-52 **Lab ID: 92508881004** Collected: 12/01/20 11:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**296**	ug/L	100	1	12/06/20 04:20	12/06/20 04:20		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/06/20 04:20	12/06/20 04:20		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 23:15	12/09/20 23:15	TPHC9C10A	
Total VPH	**365**	ug/L	100	1	12/06/20 04:20	12/06/20 04:20	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.9	%	70.0-130	1	12/06/20 04:20	12/06/20 04:20	615-59-8FID	
2,5-Dibromotoluene (FID)	102	%	70.0-130	1	12/09/20 23:15	12/09/20 23:15	615-59-8FID	
2,5-Dibromotoluene (PID)	81.4	%	70.0-130	1	12/06/20 04:20	12/06/20 04:20	615-59-8PID	
2,5-Dibromotoluene (PID)	103	%	70.0-130	1	12/09/20 23:15	12/09/20 23:15	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**16.4**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:05	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**40.5**	ug/L	0.50	1		12/04/20 03:06	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 03:06	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 03:06	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 03:06	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 03:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 03:06	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 03:06	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 03:06	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 03:06	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 03:06	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 03:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 03:06	75-00-3	
Chloroform	**0.53**	ug/L	0.50	1		12/04/20 03:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 03:06	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 03:06	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 03:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 03:06	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 03:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 03:06	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 03:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 03:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 03:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 03:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 03:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 03:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 03:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 03:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 03:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 03:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 03:06	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-52 **Lab ID: 92508881004** Collected: 12/01/20 11:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 03:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 03:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 03:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 03:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 03:06	10061-02-6	
Diisopropyl ether	**33.3**	ug/L	0.50	1		12/04/20 03:06	108-20-3	
Ethylbenzene	**4.6**	ug/L	0.50	1		12/04/20 03:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 03:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 03:06	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 03:06	75-09-2	
Methyl-tert-butyl ether	**8.8**	ug/L	0.50	1		12/04/20 03:06	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 03:06	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 03:06	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 03:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 03:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 03:06	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 03:06	127-18-4	
Toluene	**69.6**	ug/L	0.50	1		12/04/20 03:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 03:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 03:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 03:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 03:06	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 03:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 03:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 03:06	96-18-4	
1,2,4-Trimethylbenzene	**1.2**	ug/L	0.50	1		12/04/20 03:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 03:06	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 03:06	75-01-4	
m&p-Xylene	**12.7**	ug/L	1.0	1		12/04/20 03:06	179601-23-1	
o-Xylene	**9.9**	ug/L	0.50	1		12/04/20 03:06	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		12/04/20 03:06	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		12/04/20 03:06	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/04/20 03:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-58 **Lab ID: 92508881005** Collected: 12/01/20 09:35 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/06/20 04:53	12/06/20 04:53		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/06/20 04:53	12/06/20 04:53		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 23:48	12/09/20 23:48	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/06/20 04:53	12/06/20 04:53	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.3	%	70.0-130	1	12/06/20 04:53	12/06/20 04:53	615-59-8FID	
2,5-Dibromotoluene (FID)	102	%	70.0-130	1	12/09/20 23:48	12/09/20 23:48	615-59-8FID	
2,5-Dibromotoluene (PID)	79.6	%	70.0-130	1	12/06/20 04:53	12/06/20 04:53	615-59-8PID	
2,5-Dibromotoluene (PID)	102	%	70.0-130	1	12/09/20 23:48	12/09/20 23:48	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**22.7**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:08	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 03:24	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 03:24	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 03:24	74-97-5	
Bromodichloromethane	**0.76**	ug/L	0.50	1		12/04/20 03:24	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 03:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 03:24	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 03:24	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 03:24	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 03:24	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 03:24	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 03:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 03:24	75-00-3	
Chloroform	**3.8**	ug/L	0.50	1		12/04/20 03:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 03:24	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 03:24	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 03:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 03:24	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 03:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 03:24	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 03:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 03:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 03:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 03:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 03:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 03:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 03:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 03:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 03:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 03:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 03:24	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-58 **Lab ID: 92508881005** Collected: 12/01/20 09:35 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 03:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 03:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 03:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 03:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 03:24	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 03:24	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 03:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 03:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 03:24	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 03:24	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 03:24	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 03:24	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 03:24	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 03:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 03:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 03:24	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 03:24	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 03:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 03:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 03:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 03:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 03:24	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 03:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 03:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 03:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 03:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 03:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 03:24	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 03:24	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 03:24	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		12/04/20 03:24	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/04/20 03:24	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/04/20 03:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-59 **Lab ID: 92508881006** Collected: 12/01/20 09:25 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/06/20 05:26	12/06/20 05:26		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/06/20 05:26	12/06/20 05:26		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/10/20 00:21	12/10/20 00:21	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/06/20 05:26	12/06/20 05:26	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	85.4	%	70.0-130	1	12/06/20 05:26	12/06/20 05:26	615-59-8FID	
2,5-Dibromotoluene (FID)	99.2	%	70.0-130	1	12/10/20 00:21	12/10/20 00:21	615-59-8FID	
2,5-Dibromotoluene (PID)	79.5	%	70.0-130	1	12/06/20 05:26	12/06/20 05:26	615-59-8PID	
2,5-Dibromotoluene (PID)	99.5	%	70.0-130	1	12/10/20 00:21	12/10/20 00:21	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**31.6**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:12	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 03:42	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 03:42	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 03:42	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 03:42	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 03:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 03:42	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 03:42	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 03:42	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 03:42	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 03:42	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 03:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 03:42	75-00-3	
Chloroform	**1.8**	ug/L	0.50	1		12/04/20 03:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 03:42	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 03:42	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 03:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 03:42	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 03:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 03:42	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 03:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 03:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 03:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 03:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 03:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 03:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 03:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 03:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 03:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 03:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 03:42	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: MW-59 **Lab ID: 92508881006** Collected: 12/01/20 09:25 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 03:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 03:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 03:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 03:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 03:42	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 03:42	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 03:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 03:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 03:42	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 03:42	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 03:42	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 03:42	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 03:42	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 03:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 03:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 03:42	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 03:42	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 03:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 03:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 03:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 03:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 03:42	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 03:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 03:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 03:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 03:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 03:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 03:42	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 03:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 03:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		12/04/20 03:42	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/04/20 03:42	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/04/20 03:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: FB-1-20201201 **Lab ID: 92508881007** Collected: 12/01/20 16:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/07/20 17:47	12/07/20 17:47		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/07/20 17:47	12/07/20 17:47		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/07/20 17:47	12/07/20 17:47	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/07/20 17:47	12/07/20 17:47	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.0	%	70.0-130	1	12/07/20 17:47	12/07/20 17:47	615-59-8FID	
2,5-Dibromotoluene (PID)	79.1	%	70.0-130	1	12/07/20 17:47	12/07/20 17:47	615-59-8PID	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 14:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 14:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 14:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 14:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 14:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 14:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 14:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 14:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 14:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 14:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 14:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 14:47	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/04/20 14:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 14:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 14:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 14:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 14:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 14:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 14:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 14:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 14:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 14:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 14:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 14:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 14:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 14:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 14:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 14:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 14:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 14:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 14:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 14:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 14:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 14:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 14:47	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 14:47	108-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: FB-1-20201201 **Lab ID: 92508881007** Collected: 12/01/20 16:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 14:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 14:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 14:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 14:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 14:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 14:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 14:47	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 14:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 14:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 14:47	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 14:47	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 14:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 14:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 14:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 14:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 14:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 14:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 14:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 14:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 14:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 14:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 14:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 14:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 14:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/04/20 14:47	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/04/20 14:47	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/04/20 14:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: Trip Blank **Lab ID: 92508881008** Collected: 12/01/20 00:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 15:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 15:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 15:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 15:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 15:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 15:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 15:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 15:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 15:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 15:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 15:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 15:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/04/20 15:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 15:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 15:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 15:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 15:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 15:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 15:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 15:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 15:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 15:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 15:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 15:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 15:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 15:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 15:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 15:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 15:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 15:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 15:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 15:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 15:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 15:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 15:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 15:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 15:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 15:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 15:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 15:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 15:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 15:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 15:05	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 15:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 15:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 15:05	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Sample: Trip Blank **Lab ID: 92508881008** Collected: 12/01/20 00:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 15:05	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 15:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 15:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 15:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 15:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 15:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 15:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 15:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 15:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 15:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 15:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 15:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 15:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 15:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/04/20 15:05	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/04/20 15:05	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/04/20 15:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

QC Batch: 1587240 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508881001, 92508881002, 92508881003, 92508881004, 92508881005, 92508881006

METHOD BLANK: R3601131-3 Matrix: Water
Associated Lab Samples: 92508881001, 92508881002, 92508881003, 92508881004, 92508881005, 92508881006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/05/20 18:21	
Aliphatic (C09-C12)	ug/L	ND	100	12/05/20 18:21	
Total VPH	ug/L	ND	100	12/05/20 18:21	
2,5-Dibromotoluene (FID)	%	79.9	70.0-130	12/05/20 18:21	
2,5-Dibromotoluene (PID)	%	73.1	70.0-130	12/05/20 18:21	

LABORATORY CONTROL SAMPLE & LCSD: R3601131-1 R3601131-2

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	1020	84.2	85.0	70.0-130	0.985	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1360	95.0	97.1	70.0-130	2.23	25	
Total VPH	ug/L	2800	2530	2570	90.4	91.8	70.0-130	1.57	25	
2,5-Dibromotoluene (FID)	%				83.6	84.9	70.0-130			
2,5-Dibromotoluene (PID)	%				78.7	79.6	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

QC Batch: 1587907
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508881007

METHOD BLANK: R3601495-3 Matrix: Water
Associated Lab Samples: 92508881007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/07/20 16:43	
Aliphatic (C09-C12)	ug/L	ND	100	12/07/20 16:43	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/07/20 16:43	
Total VPH	ug/L	ND	100	12/07/20 16:43	
2,5-Dibromotoluene (FID)	%	81	70.0-130	12/07/20 16:43	
2,5-Dibromotoluene (PID)	%	73.2	70.0-130	12/07/20 16:43	

LABORATORY CONTROL SAMPLE & LCSD: R3601495-1 R3601495-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1120	95.8	93.3	70.0-130	2.64	25	
Aliphatic (C09-C12)	ug/L	1400	1280	1250	91.4	89.3	70.0-130	2.37	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	169	168	84.5	84.0	70.0-130	0.593	25	
Total VPH	ug/L	2800	2600	2540	92.9	90.7	70.0-130	2.33	25	
2,5-Dibromotoluene (FID)	%				87.7	84.7	70.0-130			
2,5-Dibromotoluene (PID)	%				81.9	78.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

QC Batch: 1588008 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508881001, 92508881002, 92508881003, 92508881004, 92508881005, 92508881006

METHOD BLANK: R3601876-2 Matrix: Water
Associated Lab Samples: 92508881001, 92508881002, 92508881003, 92508881004, 92508881005, 92508881006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/09/20 06:27	
2,5-Dibromotoluene (FID)	%	92.7	70.0-130	12/09/20 06:27	
2,5-Dibromotoluene (PID)	%	90.4	70.0-130	12/09/20 06:27	

LABORATORY CONTROL SAMPLE & LCSD: R3601876-1 R3601876-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	200	228	232	114	116	70.0-130	1.74	25	
2,5-Dibromotoluene (FID)	%				102	90.7	70.0-130			
2,5-Dibromotoluene (PID)	%				103	88.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

QC Batch: 584980 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92508881001, 92508881002, 92508881003, 92508881004, 92508881005, 92508881006

METHOD BLANK: 3092225 Matrix: Water
Associated Lab Samples: 92508881001, 92508881002, 92508881003, 92508881004, 92508881005, 92508881006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/08/20 08:23	BC

LABORATORY CONTROL SAMPLE: 3092226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	264	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092227 3092228

Parameter	Units	92508881001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	38.6	250	250	282	282	98	97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

QC Batch: 584369
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92508881001, 92508881002, 92508881003, 92508881004, 92508881005, 92508881006

METHOD BLANK: 3089088 Matrix: Water
Associated Lab Samples: 92508881001, 92508881002, 92508881003, 92508881004, 92508881005, 92508881006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/03/20 23:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/03/20 23:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/03/20 23:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
1,3-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
2,2-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
2-Chlorotoluene	ug/L	ND	0.50	12/03/20 23:49	
4-Chlorotoluene	ug/L	ND	0.50	12/03/20 23:49	
Benzene	ug/L	ND	0.50	12/03/20 23:49	
Bromobenzene	ug/L	ND	0.50	12/03/20 23:49	
Bromochloromethane	ug/L	ND	0.50	12/03/20 23:49	
Bromodichloromethane	ug/L	ND	0.50	12/03/20 23:49	
Bromoform	ug/L	ND	0.50	12/03/20 23:49	
Bromomethane	ug/L	ND	5.0	12/03/20 23:49	
Carbon tetrachloride	ug/L	ND	0.50	12/03/20 23:49	
Chlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
Chloroethane	ug/L	ND	1.0	12/03/20 23:49	
Chloroform	ug/L	ND	0.50	12/03/20 23:49	
Chloromethane	ug/L	ND	1.0	12/03/20 23:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
Dibromochloromethane	ug/L	ND	0.50	12/03/20 23:49	
Dibromomethane	ug/L	ND	0.50	12/03/20 23:49	
Dichlorodifluoromethane	ug/L	ND	0.50	12/03/20 23:49	
Diisopropyl ether	ug/L	ND	0.50	12/03/20 23:49	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

METHOD BLANK: 3089088 Matrix: Water
Associated Lab Samples: 92508881001, 92508881002, 92508881003, 92508881004, 92508881005, 92508881006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/03/20 23:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/03/20 23:49	
m&p-Xylene	ug/L	ND	1.0	12/03/20 23:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/03/20 23:49	
Methylene Chloride	ug/L	ND	2.0	12/03/20 23:49	
n-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
n-Propylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Naphthalene	ug/L	ND	2.0	12/03/20 23:49	
o-Xylene	ug/L	ND	0.50	12/03/20 23:49	
sec-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Styrene	ug/L	ND	0.50	12/03/20 23:49	
tert-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Tetrachloroethene	ug/L	ND	0.50	12/03/20 23:49	
Toluene	ug/L	ND	0.50	12/03/20 23:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
Trichloroethene	ug/L	ND	0.50	12/03/20 23:49	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/20 23:49	
Vinyl chloride	ug/L	ND	1.0	12/03/20 23:49	
1,2-Dichloroethane-d4 (S)	%	94	70-130	12/03/20 23:49	
4-Bromofluorobenzene (S)	%	98	70-130	12/03/20 23:49	
Toluene-d8 (S)	%	103	70-130	12/03/20 23:49	

LABORATORY CONTROL SAMPLE: 3089089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,1-Trichloroethane	ug/L	50	49.7	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	58.8	118	60-140	
1,1,2-Trichloroethane	ug/L	50	49.3	99	60-140	
1,1-Dichloroethane	ug/L	50	52.7	105	60-140	
1,1-Dichloroethene	ug/L	50	51.1	102	60-140	
1,1-Dichloropropene	ug/L	50	49.6	99	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.1	96	60-140	
1,2,3-Trichloropropane	ug/L	50	55.5	111	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.5	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.6	91	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.2	110	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.8	96	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	47.3	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	45.2	90	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

LABORATORY CONTROL SAMPLE: 3089089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.7	95	60-140	
1,3-Dichloropropane	ug/L	50	53.5	107	60-140	
1,4-Dichlorobenzene	ug/L	50	47.8	96	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	48.0	96	60-140	
4-Chlorotoluene	ug/L	50	46.9	94	60-140	
Benzene	ug/L	50	46.0	92	60-140	
Bromobenzene	ug/L	50	47.6	95	60-140	
Bromochloromethane	ug/L	50	54.2	108	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	47.0	94	60-140	
Bromomethane	ug/L	50	53.3	107	60-140	
Carbon tetrachloride	ug/L	50	46.5	93	60-140	
Chlorobenzene	ug/L	50	47.7	95	60-140	
Chloroethane	ug/L	50	43.7	87	60-140	
Chloroform	ug/L	50	49.4	99	60-140	
Chloromethane	ug/L	50	45.3	91	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	52.5	105	60-140	
Dibromomethane	ug/L	50	47.4	95	60-140	
Dichlorodifluoromethane	ug/L	50	43.9	88	60-140	
Diisopropyl ether	ug/L	50	51.8	104	60-140	
Ethylbenzene	ug/L	50	46.6	93	60-140	
Hexachloro-1,3-butadiene	ug/L	50	45.4	91	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	53.9	108	60-140	
Methylene Chloride	ug/L	50	49.0	98	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	52.3	105	60-140	
o-Xylene	ug/L	50	49.0	98	60-140	
sec-Butylbenzene	ug/L	50	46.9	94	60-140	
Styrene	ug/L	50	49.1	98	60-140	
tert-Butylbenzene	ug/L	50	39.9	80	60-140	
Tetrachloroethene	ug/L	50	53.0	106	60-140	
Toluene	ug/L	50	44.8	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.5	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	60-140	
Trichloroethene	ug/L	50	46.7	93	60-140	
Trichlorofluoromethane	ug/L	50	43.8	88	60-140	
Vinyl chloride	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3089090 3089091

Parameter	Units	92508822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.1	19.7	100	98	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.1	20.3	101	101	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	20.0	104	100	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.5	18.9	97	94	60-140	3	
1,1-Dichloroethane	ug/L	ND	20	20	21.3	21.5	107	107	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	20.3	101	101	60-140	0	
1,1-Dichloropropene	ug/L	ND	20	20	22.2	21.5	111	107	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.6	19.7	108	98	60-140	9	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.7	19.1	99	95	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.5	19.4	108	97	60-140	10	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.6	19.4	98	97	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.4	20.1	107	101	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.9	20.4	104	102	60-140	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.1	19.3	101	97	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	17.5	17.2	87	86	60-140	1	
1,2-Dichloropropane	ug/L	ND	20	20	22.2	21.4	111	107	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	20.1	104	101	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.4	101	97	60-140	4	
1,3-Dichloropropane	ug/L	ND	20	20	21.7	21.0	109	105	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.8	19.7	104	99	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3	
2-Chlorotoluene	ug/L	ND	20	20	21.6	20.8	108	104	60-140	4	
4-Chlorotoluene	ug/L	ND	20	20	20.3	19.7	102	99	60-140	3	
Benzene	ug/L	ND	20	20	21.2	21.1	106	105	60-140	1	
Bromobenzene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2	
Bromochloromethane	ug/L	ND	20	20	20.7	20.3	104	102	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	18.6	18.8	93	94	60-140	1	
Bromoform	ug/L	ND	20	20	17.8	17.4	89	87	60-140	2	
Bromomethane	ug/L	ND	20	20	22.3	23.3	112	116	60-140	4	
Carbon tetrachloride	ug/L	ND	20	20	19.1	19.8	95	99	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.5	20.8	103	104	60-140	1	
Chloroethane	ug/L	ND	20	20	19.3	19.5	96	97	60-140	1	
Chloroform	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1	
Chloromethane	ug/L	ND	20	20	19.4	18.9	97	95	60-140	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.0	104	105	60-140	1	
Dibromochloromethane	ug/L	ND	20	20	21.0	20.2	105	101	60-140	4	
Dibromomethane	ug/L	ND	20	20	18.8	18.9	94	95	60-140	1	
Dichlorodifluoromethane	ug/L	ND	20	20	17.9	17.5	89	87	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.5	20.5	102	102	60-140	0	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.6	21.1	113	105	60-140	7	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	20.9	105	104	60-140	0	
m&p-Xylene	ug/L	ND	40	40	40.4	40.7	101	102	60-140	1	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.2	18.7	96	94	60-140	3	
Methylene Chloride	ug/L	ND	20	20	19.2	18.4	96	92	60-140	5	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3089090 3089091

Parameter	Units	92508822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	21.7	20.7	109	104	60-140	5	
n-Propylbenzene	ug/L	ND	20	20	21.7	21.0	108	105	60-140	3	
Naphthalene	ug/L	ND	20	20	22.4	19.1	112	95	60-140	16	
o-Xylene	ug/L	ND	20	20	20.9	20.9	105	104	60-140	0	
sec-Butylbenzene	ug/L	ND	20	20	21.7	20.8	108	104	60-140	4	
Styrene	ug/L	ND	20	20	20.7	20.8	104	104	60-140	0	
tert-Butylbenzene	ug/L	ND	20	20	18.3	18.1	91	91	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	20.0	20.1	100	101	60-140	1	
Toluene	ug/L	ND	20	20	19.9	20.1	100	101	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	21.2	107	106	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.0	18.7	95	94	60-140	2	
Trichloroethene	ug/L	ND	20	20	20.6	20.1	103	100	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	18.9	18.6	95	93	60-140	2	
Vinyl chloride	ug/L	ND	20	20	19.6	19.9	98	100	60-140	1	
1,2-Dichloroethane-d4 (S)	%						89	89	70-130		
4-Bromofluorobenzene (S)	%						95	97	70-130		
Toluene-d8 (S)	%						100	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

QC Batch: 584648
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92508881007, 92508881008

METHOD BLANK: 3090477 Matrix: Water
Associated Lab Samples: 92508881007, 92508881008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1-Dichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1-Dichloroethene	ug/L	ND	0.50	12/04/20 14:11	
1,1-Dichloropropene	ug/L	ND	0.50	12/04/20 14:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/04/20 14:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/04/20 14:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/04/20 14:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/04/20 14:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dichloropropane	ug/L	ND	0.50	12/04/20 14:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/04/20 14:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
1,3-Dichloropropane	ug/L	ND	0.50	12/04/20 14:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
2,2-Dichloropropane	ug/L	ND	0.50	12/04/20 14:11	
2-Chlorotoluene	ug/L	ND	0.50	12/04/20 14:11	
4-Chlorotoluene	ug/L	ND	0.50	12/04/20 14:11	
Benzene	ug/L	ND	0.50	12/04/20 14:11	
Bromobenzene	ug/L	ND	0.50	12/04/20 14:11	
Bromochloromethane	ug/L	ND	0.50	12/04/20 14:11	
Bromodichloromethane	ug/L	ND	0.50	12/04/20 14:11	
Bromoform	ug/L	ND	0.50	12/04/20 14:11	
Bromomethane	ug/L	ND	5.0	12/04/20 14:11	
Carbon tetrachloride	ug/L	ND	0.50	12/04/20 14:11	
Chlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
Chloroethane	ug/L	ND	1.0	12/04/20 14:11	
Chloroform	ug/L	ND	0.50	12/04/20 14:11	
Chloromethane	ug/L	ND	1.0	12/04/20 14:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/04/20 14:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/04/20 14:11	
Dibromochloromethane	ug/L	ND	0.50	12/04/20 14:11	
Dibromomethane	ug/L	ND	0.50	12/04/20 14:11	
Dichlorodifluoromethane	ug/L	ND	0.50	12/04/20 14:11	
Diisopropyl ether	ug/L	ND	0.50	12/04/20 14:11	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

METHOD BLANK: 3090477 Matrix: Water
Associated Lab Samples: 92508881007, 92508881008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/04/20 14:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/04/20 14:11	
m&p-Xylene	ug/L	ND	1.0	12/04/20 14:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/04/20 14:11	
Methylene Chloride	ug/L	ND	2.0	12/04/20 14:11	
n-Butylbenzene	ug/L	ND	0.50	12/04/20 14:11	
n-Propylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Naphthalene	ug/L	ND	2.0	12/04/20 14:11	
o-Xylene	ug/L	ND	0.50	12/04/20 14:11	
sec-Butylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Styrene	ug/L	ND	0.50	12/04/20 14:11	
tert-Butylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Tetrachloroethene	ug/L	ND	0.50	12/04/20 14:11	
Toluene	ug/L	ND	0.50	12/04/20 14:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/04/20 14:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/04/20 14:11	
Trichloroethene	ug/L	ND	0.50	12/04/20 14:11	
Trichlorofluoromethane	ug/L	ND	1.0	12/04/20 14:11	
Vinyl chloride	ug/L	ND	1.0	12/04/20 14:11	
1,2-Dichloroethane-d4 (S)	%	92	70-130	12/04/20 14:11	
4-Bromofluorobenzene (S)	%	97	70-130	12/04/20 14:11	
Toluene-d8 (S)	%	102	70-130	12/04/20 14:11	

LABORATORY CONTROL SAMPLE: 3090478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.2	90	60-140	
1,1,1-Trichloroethane	ug/L	50	43.9	88	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	60-140	
1,1,2-Trichloroethane	ug/L	50	45.4	91	60-140	
1,1-Dichloroethane	ug/L	50	47.2	94	60-140	
1,1-Dichloroethene	ug/L	50	42.0	84	60-140	
1,1-Dichloropropene	ug/L	50	48.5	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.4	95	60-140	
1,2,3-Trichloropropane	ug/L	50	42.9	86	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.4	87	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.8	100	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	47.4	95	60-140	
1,2-Dichlorobenzene	ug/L	50	45.8	92	60-140	
1,2-Dichloroethane	ug/L	50	37.5	75	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	44.7	89	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

LABORATORY CONTROL SAMPLE: 3090478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.2	92	60-140	
1,3-Dichloropropane	ug/L	50	49.7	99	60-140	
1,4-Dichlorobenzene	ug/L	50	46.8	94	60-140	
2,2-Dichloropropane	ug/L	50	45.4	91	60-140	
2-Chlorotoluene	ug/L	50	45.9	92	60-140	
4-Chlorotoluene	ug/L	50	44.9	90	60-140	
Benzene	ug/L	50	46.8	94	60-140	
Bromobenzene	ug/L	50	45.8	92	60-140	
Bromochloromethane	ug/L	50	47.6	95	60-140	
Bromodichloromethane	ug/L	50	41.6	83	60-140	
Bromoform	ug/L	50	42.2	84	60-140	
Bromomethane	ug/L	50	43.2	86	60-140	
Carbon tetrachloride	ug/L	50	41.1	82	60-140	
Chlorobenzene	ug/L	50	46.5	93	60-140	
Chloroethane	ug/L	50	36.8	74	60-140	
Chloroform	ug/L	50	44.3	89	60-140	
Chloromethane	ug/L	50	39.3	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.0	88	60-140	
cis-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Dibromochloromethane	ug/L	50	48.3	97	60-140	
Dibromomethane	ug/L	50	41.9	84	60-140	
Dichlorodifluoromethane	ug/L	50	38.6	77	60-140	
Diisopropyl ether	ug/L	50	45.2	90	60-140	
Ethylbenzene	ug/L	50	45.7	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.5	95	60-140	
Isopropylbenzene (Cumene)	ug/L	50	46.7	93	60-140	
m&p-Xylene	ug/L	100	90.2	90	60-140	
Methyl-tert-butyl ether	ug/L	50	44.9	90	60-140	
Methylene Chloride	ug/L	50	42.8	86	60-140	
n-Butylbenzene	ug/L	50	47.3	95	60-140	
n-Propylbenzene	ug/L	50	46.8	94	60-140	
Naphthalene	ug/L	50	50.6	101	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	46.6	93	60-140	
Styrene	ug/L	50	48.5	97	60-140	
tert-Butylbenzene	ug/L	50	39.0	78	60-140	
Tetrachloroethene	ug/L	50	45.8	92	60-140	
Toluene	ug/L	50	43.8	88	60-140	
trans-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
trans-1,3-Dichloropropene	ug/L	50	44.2	88	60-140	
Trichloroethene	ug/L	50	44.5	89	60-140	
Trichlorofluoromethane	ug/L	50	37.0	74	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090479 3090480

Parameter	Units	92508857002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<8.4	400	400	390	345	97	86	60-140	12	
1,1,1-Trichloroethane	ug/L	<5.6	400	400	408	358	102	89	60-140	13	
1,1,2,2-Tetrachloroethane	ug/L	<3.9	400	400	416	364	104	91	60-140	13	
1,1,2-Trichloroethane	ug/L	<4.6	400	400	402	349	100	87	60-140	14	
1,1-Dichloroethane	ug/L	<4.9	400	400	438	393	110	98	60-140	11	
1,1-Dichloroethene	ug/L	<4.4	400	400	406	362	101	90	60-140	11	
1,1-Dichloropropene	ug/L	<7.0	400	400	441	387	110	97	60-140	13	
1,2,3-Trichlorobenzene	ug/L	<15.6	400	400	346	338	86	84	60-140	2	
1,2,3-Trichloropropane	ug/L	<5.4	400	400	388	343	97	86	60-140	12	
1,2,4-Trichlorobenzene	ug/L	<8.7	400	400	349	331	87	83	60-140	5	
1,2,4-Trimethylbenzene	ug/L	710	400	400	1120	1120	101	102	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	<7.7	400	400	398	369	99	92	60-140	7	
1,2-Dibromoethane (EDB)	ug/L	290	400	400	705	678	104	97	60-140	4	
1,2-Dichlorobenzene	ug/L	<4.8	400	400	380	339	95	85	60-140	11	
1,2-Dichloroethane	ug/L	1020	400	400	1440	1510	104	121	60-140	5	
1,2-Dichloropropane	ug/L	17.4	400	400	458	406	110	97	60-140	12	
1,3,5-Trimethylbenzene	ug/L	373	400	400	775	751	101	94	60-140	3	
1,3-Dichlorobenzene	ug/L	<5.0	400	400	380	337	95	84	60-140	12	
1,3-Dichloropropane	ug/L	<6.8	400	400	436	383	109	96	60-140	13	
1,4-Dichlorobenzene	ug/L	<5.0	400	400	382	341	96	85	60-140	11	
2,2-Dichloropropane	ug/L	<5.6	400	400	361	326	90	82	60-140	10	
2-Chlorotoluene	ug/L	<4.1	400	400	413	364	103	91	60-140	13	
4-Chlorotoluene	ug/L	<4.1	400	400	388	338	97	85	60-140	14	
Benzene	ug/L	1740	400	400	2160	2330	104	147	60-140	8	M1
Bromobenzene	ug/L	<4.3	400	400	392	343	98	86	60-140	13	
Bromochloromethane	ug/L	<5.2	400	400	415	363	104	91	60-140	13	
Bromodichloromethane	ug/L	<3.7	400	400	365	325	91	81	60-140	12	
Bromoform	ug/L	<8.1	400	400	329	295	82	74	60-140	11	
Bromomethane	ug/L	<34.4	400	400	321	333	80	83	60-140	4	
Carbon tetrachloride	ug/L	<4.6	400	400	344	321	86	80	60-140	7	
Chlorobenzene	ug/L	<4.5	400	400	403	346	101	87	60-140	15	
Chloroethane	ug/L	<11.7	400	400	367	346	92	87	60-140	6	
Chloroform	ug/L	<7.1	400	400	395	369	99	92	60-140	7	
Chloromethane	ug/L	<8.3	400	400	361	354	90	88	60-140	2	
cis-1,2-Dichloroethene	ug/L	<4.1	400	400	396	362	99	90	60-140	9	
cis-1,3-Dichloropropene	ug/L	<7.1	400	400	401	361	100	90	60-140	11	
Dibromochloromethane	ug/L	<8.0	400	400	401	342	100	85	60-140	16	
Dibromomethane	ug/L	<6.2	400	400	359	327	90	82	60-140	9	
Dichlorodifluoromethane	ug/L	<5.7	400	400	358	327	90	82	60-140	9	
Diisopropyl ether	ug/L	2140	400	400	2720	2900	144	190	60-140	6	M1
Ethylbenzene	ug/L	177	400	400	586	533	102	89	60-140	9	
Hexachloro-1,3-butadiene	ug/L	<24.0	400	400	358	329	90	82	60-140	9	
Isopropylbenzene (Cumene)	ug/L	<4.8	400	400	416	367	104	92	60-140	12	
m&p-Xylene	ug/L	2350	800	800	3170	3190	102	105	60-140	1	
Methyl-tert-butyl ether	ug/L	295	400	400	698	686	101	98	60-140	2	
Methylene Chloride	ug/L	<30.0	400	400	403	361	101	90	60-140	11	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090479 3090480

Parameter	Units	92508857002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<7.1	400	400	421	380	105	95	60-140	10	
n-Propylbenzene	ug/L	<4.8	400	400	418	377	104	94	60-140	10	
Naphthalene	ug/L	433	400	400	840	879	102	112	60-140	5	
o-Xylene	ug/L	1910	400	400	2330	2390	106	120	60-140	2	
sec-Butylbenzene	ug/L	<4.9	400	400	410	364	103	91	60-140	12	
Styrene	ug/L	<5.1	400	400	413	371	103	93	60-140	11	
tert-Butylbenzene	ug/L	<5.0	400	400	343	304	86	76	60-140	12	
Tetrachloroethene	ug/L	<4.6	400	400	384	330	96	83	60-140	15	
Toluene	ug/L	2420	400	400	2820	2990	99	142	60-140	6	M1
trans-1,2-Dichloroethene	ug/L	<5.1	400	400	422	383	106	96	60-140	10	
trans-1,3-Dichloropropene	ug/L	<7.9	400	400	374	335	93	84	60-140	11	
Trichloroethene	ug/L	<4.6	400	400	393	344	98	86	60-140	13	
Trichlorofluoromethane	ug/L	<6.7	400	400	358	320	89	80	60-140	11	
Vinyl chloride	ug/L	<8.1	400	400	409	367	102	92	60-140	11	
1,2-Dichloroethane-d4 (S)	%						95	100	70-130		
4-Bromofluorobenzene (S)	%						99	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

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

BC	The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508881

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508881001	**MW-18**	MADEPV	1587240	MADEP VPH	1587240
92508881001	**MW-18**	MADEPV	1588008	MADEP VPH	1588008
92508881002	**MW-20**	MADEPV	1587240	MADEP VPH	1587240
92508881002	**MW-20**	MADEPV	1588008	MADEP VPH	1588008
92508881003	**MW-25**	MADEPV	1587240	MADEP VPH	1587240
92508881003	**MW-25**	MADEPV	1588008	MADEP VPH	1588008
92508881004	**MW-52**	MADEPV	1587240	MADEP VPH	1587240
92508881004	**MW-52**	MADEPV	1588008	MADEP VPH	1588008
92508881005	**MW-58**	MADEPV	1587240	MADEP VPH	1587240
92508881005	**MW-58**	MADEPV	1588008	MADEP VPH	1588008
92508881006	**MW-59**	MADEPV	1587240	MADEP VPH	1587240
92508881006	**MW-59**	MADEPV	1588008	MADEP VPH	1588008
92508881007	**FB-1-20201201**	MADEPV	1587907	MADEP VPH	1587907
92508881001	**MW-18**	EPA 3010A	584980	EPA 6010D	585026
92508881002	**MW-20**	EPA 3010A	584980	EPA 6010D	585026
92508881003	**MW-25**	EPA 3010A	584980	EPA 6010D	585026
92508881004	**MW-52**	EPA 3010A	584980	EPA 6010D	585026
92508881005	**MW-58**	EPA 3010A	584980	EPA 6010D	585026
92508881006	**MW-59**	EPA 3010A	584980	EPA 6010D	585026
92508881001	**MW-18**	SM 6200B	584369		
92508881002	**MW-20**	SM 6200B	584369		
92508881003	**MW-25**	SM 6200B	584369		
92508881004	**MW-52**	SM 6200B	584369		
92508881005	**MW-58**	SM 6200B	584369		
92508881006	**MW-59**	SM 6200B	584369		
92508881007	**FB-1-20201201**	SM 6200B	584648		
92508881008	**Trip Blank**	SM 6200B	584648		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 92508881

92508881

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☒ Client

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: 12/2/20

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: 0.3 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 0.2

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

USDA Regulated Soil (☒ N/A, water sample)

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

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

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

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

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

Project # **WO#: 92508881**

PM: NMG Due Date: 12/08/20

CLIENT: 92-AECOM CHA

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)	SPST-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)	AGDU-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													
3						1 ✓										7													
4						1 ✓										7													
5						1 ✓										7													
6						1 ✓										7													
7																7													
8																2													
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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	AECOM	Report To:	Andrew Wreschnig	Attention:	
Address:	6000 Fairview Road	Copy To:		Company Name:	
Suite 200, Charlotte, NC 28226				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone: (704)522-0330	Fax	Project Name:	Colonial Pipeline	Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	12518-3

Regulatory Agency	
State / Location	NC

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	92508881
1	MW-18	WT	G			12/1	0845		8				X						X	X	X			001
2	MW-20						0930																	002
3	MW-25						1005																	003
4	MW-52						1100																	004
5	MW-58						0935																	005
6	MW-59						0925																	006
7	FB-1-20201201						1600		7															007
8	Trip Blank						Lab		Provided													X		008
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Emily R. Love / AECOM	12/1/20 1703		CDH	PACE ANC	12/1/20	1703	0.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emily Love

SIGNATURE of SAMPLER: Emily R Love

DATE Signed: 12/1/2020

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 09, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508884001	**MW-16**	MADEP VPH	BMB, JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508884002	**MW-17**	MADEP VPH	BMB, JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508884003	**MW-21**	MADEP VPH	BMB, JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508884004	**MW-23**	MADEP VPH	BMB, JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508884005	**MW-40**	MADEP VPH	BMB, JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508884006	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: MW-16 **Lab ID: 92508884001** Collected: 12/01/20 14:10 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/05/20 21:06	12/05/20 21:06		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/05/20 21:06	12/05/20 21:06		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 11:37	12/09/20 11:37	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/05/20 21:06	12/05/20 21:06	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.7	%	70.0-130	1	12/05/20 21:06	12/05/20 21:06	615-59-8FID	
2,5-Dibromotoluene (FID)	90.1	%	70.0-130	1	12/09/20 11:37	12/09/20 11:37	615-59-8FID	
2,5-Dibromotoluene (PID)	80.2	%	70.0-130	1	12/05/20 21:06	12/05/20 21:06	615-59-8PID	
2,5-Dibromotoluene (PID)	88.3	%	70.0-130	1	12/09/20 11:37	12/09/20 11:37	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**18.9**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:15	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 16:52	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 16:52	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 16:52	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 16:52	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 16:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 16:52	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 16:52	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 16:52	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 16:52	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 16:52	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 16:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 16:52	75-00-3	
Chloroform	**1.1**	ug/L	0.50	1		12/04/20 16:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 16:52	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 16:52	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 16:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 16:52	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 16:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 16:52	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 16:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 16:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 16:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 16:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 16:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 16:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 16:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 16:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 16:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 16:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 16:52	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: MW-16 **Lab ID: 92508884001** Collected: 12/01/20 14:10 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 16:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 16:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 16:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 16:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 16:52	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 16:52	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 16:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 16:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 16:52	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 16:52	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 16:52	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 16:52	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 16:52	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 16:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 16:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 16:52	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 16:52	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 16:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 16:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 16:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 16:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 16:52	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 16:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 16:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 16:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 16:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 16:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 16:52	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 16:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 16:52	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/04/20 16:52	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/04/20 16:52	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/04/20 16:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: MW-17 **Lab ID: 92508884002** Collected: 12/01/20 14:40 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/05/20 21:40	12/05/20 21:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/05/20 21:40	12/05/20 21:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 12:10	12/09/20 12:10	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/05/20 21:40	12/05/20 21:40	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.0	%	70.0-130	1	12/05/20 21:40	12/05/20 21:40	615-59-8FID	
2,5-Dibromotoluene (FID)	94.5	%	70.0-130	1	12/09/20 12:10	12/09/20 12:10	615-59-8FID	
2,5-Dibromotoluene (PID)	82.5	%	70.0-130	1	12/05/20 21:40	12/05/20 21:40	615-59-8PID	
2,5-Dibromotoluene (PID)	92.2	%	70.0-130	1	12/09/20 12:10	12/09/20 12:10	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**9.5**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:18	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 17:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 17:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 17:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 17:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 17:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 17:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 17:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 17:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 17:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 17:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 17:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 17:10	75-00-3	
Chloroform	**4.7**	ug/L	0.50	1		12/04/20 17:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 17:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 17:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 17:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 17:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 17:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 17:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 17:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 17:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 17:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 17:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 17:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 17:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 17:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 17:10	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: MW-17 **Lab ID: 92508884002** Collected: 12/01/20 14:40 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 17:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 17:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 17:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 17:10	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 17:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 17:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 17:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 17:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 17:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 17:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 17:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 17:10	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 17:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 17:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 17:10	79-34-5	
Tetrachloroethene	**0.61**	ug/L	0.50	1		12/04/20 17:10	127-18-4	
Toluene	**0.80**	ug/L	0.50	1		12/04/20 17:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 17:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 17:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 17:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 17:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 17:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 17:10	96-18-4	
1,2,4-Trimethylbenzene	**1.1**	ug/L	0.50	1		12/04/20 17:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 17:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 17:10	75-01-4	
m&p-Xylene	**1.8**	ug/L	1.0	1		12/04/20 17:10	179601-23-1	
o-Xylene	**0.77**	ug/L	0.50	1		12/04/20 17:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/04/20 17:10	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/04/20 17:10	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/04/20 17:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: MW-21 **Lab ID: 92508884003** Collected: 12/01/20 11:40 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**466**	ug/L	100	1	12/05/20 22:13	12/05/20 22:13		
Aliphatic (C09-C12)	**121**	ug/L	100	1	12/05/20 22:13	12/05/20 22:13		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 12:43	12/09/20 12:43	TPHC9C10A	
Total VPH	**630**	ug/L	100	1	12/05/20 22:13	12/05/20 22:13	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.3	%	70.0-130	1	12/05/20 22:13	12/05/20 22:13	615-59-8FID	
2,5-Dibromotoluene (FID)	95.4	%	70.0-130	1	12/09/20 12:43	12/09/20 12:43	615-59-8FID	
2,5-Dibromotoluene (PID)	83.6	%	70.0-130	1	12/05/20 22:13	12/05/20 22:13	615-59-8PID	
2,5-Dibromotoluene (PID)	95.3	%	70.0-130	1	12/09/20 12:43	12/09/20 12:43	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**53.7**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:21	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**124**	ug/L	0.50	1		12/04/20 17:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 17:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 17:28	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 17:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 17:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 17:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 17:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 17:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 17:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 17:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 17:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 17:28	75-00-3	
Chloroform	**4.5**	ug/L	0.50	1		12/04/20 17:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 17:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 17:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 17:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 17:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 17:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 17:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 17:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 17:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 17:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 17:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 17:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 17:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 17:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 17:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 17:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 17:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 17:28	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: MW-21 **Lab ID: 92508884003** Collected: 12/01/20 11:40 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 17:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 17:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 17:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 17:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 17:28	10061-02-6	
Diisopropyl ether	**31.1**	ug/L	0.50	1		12/04/20 17:28	108-20-3	
Ethylbenzene	**3.6**	ug/L	0.50	1		12/04/20 17:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 17:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 17:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 17:28	75-09-2	
Methyl-tert-butyl ether	**12.2**	ug/L	0.50	1		12/04/20 17:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 17:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 17:28	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 17:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 17:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 17:28	79-34-5	
Tetrachloroethene	**0.82**	ug/L	0.50	1		12/04/20 17:28	127-18-4	
Toluene	**46.8**	ug/L	0.50	1		12/04/20 17:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 17:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 17:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 17:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 17:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 17:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 17:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 17:28	96-18-4	
1,2,4-Trimethylbenzene	**7.7**	ug/L	0.50	1		12/04/20 17:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 17:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 17:28	75-01-4	
m&p-Xylene	**42.7**	ug/L	1.0	1		12/04/20 17:28	179601-23-1	
o-Xylene	**24.2**	ug/L	0.50	1		12/04/20 17:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		12/04/20 17:28	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/04/20 17:28	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		12/04/20 17:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: MW-23 **Lab ID: 92508884004** Collected: 12/01/20 15:30 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/05/20 22:46	12/05/20 22:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/05/20 22:46	12/05/20 22:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 13:16	12/09/20 13:16	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/05/20 22:46	12/05/20 22:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.9	%	70.0-130	1	12/05/20 22:46	12/05/20 22:46	615-59-8FID	
2,5-Dibromotoluene (FID)	95.4	%	70.0-130	1	12/09/20 13:16	12/09/20 13:16	615-59-8FID	
2,5-Dibromotoluene (PID)	83.2	%	70.0-130	1	12/05/20 22:46	12/05/20 22:46	615-59-8PID	
2,5-Dibromotoluene (PID)	93.5	%	70.0-130	1	12/09/20 13:16	12/09/20 13:16	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**24.7**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:24	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 17:46	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 17:46	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 17:46	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 17:46	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 17:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 17:46	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 17:46	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 17:46	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 17:46	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 17:46	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 17:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 17:46	75-00-3	
Chloroform	**0.97**	ug/L	0.50	1		12/04/20 17:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 17:46	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 17:46	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 17:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 17:46	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 17:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 17:46	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 17:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 17:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 17:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 17:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 17:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 17:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 17:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 17:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 17:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 17:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 17:46	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: MW-23 **Lab ID: 92508884004** Collected: 12/01/20 15:30 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 17:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 17:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 17:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 17:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 17:46	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 17:46	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 17:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 17:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 17:46	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 17:46	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 17:46	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 17:46	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 17:46	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 17:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 17:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 17:46	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 17:46	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 17:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 17:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 17:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 17:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 17:46	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 17:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 17:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 17:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 17:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 17:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 17:46	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 17:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 17:46	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		12/04/20 17:46	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/04/20 17:46	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/04/20 17:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: MW-40 **Lab ID: 92508884005** Collected: 12/01/20 15:10 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**2770**	ug/L	100	1	12/05/20 23:19	12/05/20 23:19		
Aliphatic (C09-C12)	**1070**	ug/L	100	1	12/05/20 23:19	12/05/20 23:19		
Aromatic (C09-C10),Unadjusted	**323**	ug/L	100	1	12/09/20 13:50	12/09/20 13:50	TPHC9C10A	
Total VPH	**4070**	ug/L	100	1	12/05/20 23:19	12/05/20 23:19	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.3	%	70.0-130	1	12/05/20 23:19	12/05/20 23:19	615-59-8FID	
2,5-Dibromotoluene (FID)	97.6	%	70.0-130	1	12/09/20 13:50	12/09/20 13:50	615-59-8FID	
2,5-Dibromotoluene (PID)	81.0	%	70.0-130	1	12/05/20 23:19	12/05/20 23:19	615-59-8PID	
2,5-Dibromotoluene (PID)	95.9	%	70.0-130	1	12/09/20 13:50	12/09/20 13:50	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**47.9**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:34	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**416**	ug/L	2.5	5		12/08/20 03:41	71-43-2	
Bromobenzene	ND	ug/L	2.5	5		12/08/20 03:41	108-86-1	
Bromochloromethane	ND	ug/L	2.5	5		12/08/20 03:41	74-97-5	
Bromodichloromethane	ND	ug/L	2.5	5		12/08/20 03:41	75-27-4	
Bromoform	ND	ug/L	2.5	5		12/08/20 03:41	75-25-2	
Bromomethane	ND	ug/L	25.0	5		12/08/20 03:41	74-83-9	
n-Butylbenzene	ND	ug/L	2.5	5		12/08/20 03:41	104-51-8	
sec-Butylbenzene	ND	ug/L	2.5	5		12/08/20 03:41	135-98-8	
tert-Butylbenzene	ND	ug/L	2.5	5		12/08/20 03:41	98-06-6	
Carbon tetrachloride	ND	ug/L	2.5	5		12/08/20 03:41	56-23-5	
Chlorobenzene	ND	ug/L	2.5	5		12/08/20 03:41	108-90-7	
Chloroethane	ND	ug/L	5.0	5		12/08/20 03:41	75-00-3	
Chloroform	ND	ug/L	2.5	5		12/08/20 03:41	67-66-3	
Chloromethane	ND	ug/L	5.0	5		12/08/20 03:41	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	5		12/08/20 03:41	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	5		12/08/20 03:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	5		12/08/20 03:41	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	5		12/08/20 03:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	5		12/08/20 03:41	106-93-4	
Dibromomethane	ND	ug/L	2.5	5		12/08/20 03:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	5		12/08/20 03:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	5		12/08/20 03:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	5		12/08/20 03:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	5		12/08/20 03:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.5	5		12/08/20 03:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.5	5		12/08/20 03:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.5	5		12/08/20 03:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	5		12/08/20 03:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	5		12/08/20 03:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	5		12/08/20 03:41	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: MW-40 **Lab ID: 92508884005** Collected: 12/01/20 15:10 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	2.5	5		12/08/20 03:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	5		12/08/20 03:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.5	5		12/08/20 03:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	5		12/08/20 03:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	5		12/08/20 03:41	10061-02-6	
Diisopropyl ether	**27.7**	ug/L	2.5	5		12/08/20 03:41	108-20-3	
Ethylbenzene	**37.7**	ug/L	2.5	5		12/08/20 03:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	5		12/08/20 03:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.5	5		12/08/20 03:41	98-82-8	
Methylene Chloride	ND	ug/L	10.0	5		12/08/20 03:41	75-09-2	
Methyl-tert-butyl ether	**3.2**	ug/L	2.5	5		12/08/20 03:41	1634-04-4	
Naphthalene	ND	ug/L	10.0	5		12/08/20 03:41	91-20-3	
n-Propylbenzene	ND	ug/L	2.5	5		12/08/20 03:41	103-65-1	
Styrene	ND	ug/L	2.5	5		12/08/20 03:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	5		12/08/20 03:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	5		12/08/20 03:41	79-34-5	
Tetrachloroethene	ND	ug/L	2.5	5		12/08/20 03:41	127-18-4	
Toluene	**829**	ug/L	2.5	5		12/08/20 03:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	5		12/08/20 03:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	5		12/08/20 03:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.5	5		12/08/20 03:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	5		12/08/20 03:41	79-00-5	
Trichloroethene	ND	ug/L	2.5	5		12/08/20 03:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		12/08/20 03:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	5		12/08/20 03:41	96-18-4	
1,2,4-Trimethylbenzene	**71.1**	ug/L	2.5	5		12/08/20 03:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.5	5		12/08/20 03:41	108-67-8	
Vinyl chloride	ND	ug/L	5.0	5		12/08/20 03:41	75-01-4	
m&p-Xylene	**404**	ug/L	5.0	5		12/08/20 03:41	179601-23-1	
o-Xylene	**213**	ug/L	2.5	5		12/08/20 03:41	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	5		12/08/20 03:41	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	5		12/08/20 03:41	460-00-4	
Toluene-d8 (S)	99	%	70-130	5		12/08/20 03:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: Trip Blank **Lab ID: 92508884006** Collected: 12/01/20 00:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 15:23	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 15:23	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 15:23	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 15:23	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 15:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 15:23	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 15:23	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 15:23	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 15:23	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 15:23	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 15:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 15:23	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/04/20 15:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 15:23	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 15:23	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 15:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 15:23	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 15:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 15:23	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 15:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 15:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 15:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 15:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 15:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 15:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 15:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 15:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 15:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 15:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 15:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 15:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 15:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 15:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 15:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 15:23	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 15:23	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 15:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 15:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 15:23	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 15:23	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 15:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 15:23	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 15:23	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 15:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 15:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 15:23	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Sample: Trip Blank **Lab ID: 92508884006** Collected: 12/01/20 00:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 15:23	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 15:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 15:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 15:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 15:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 15:23	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 15:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 15:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 15:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 15:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 15:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 15:23	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 15:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 15:23	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/04/20 15:23	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/04/20 15:23	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/04/20 15:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

QC Batch: 1587240 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508884001, 92508884002, 92508884003, 92508884004, 92508884005

METHOD BLANK: R3601131-3 Matrix: Water
Associated Lab Samples: 92508884001, 92508884002, 92508884003, 92508884004, 92508884005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/05/20 18:21	
Aliphatic (C09-C12)	ug/L	ND	100	12/05/20 18:21	
Total VPH	ug/L	ND	100	12/05/20 18:21	
2,5-Dibromotoluene (FID)	%	79.9	70.0-130	12/05/20 18:21	
2,5-Dibromotoluene (PID)	%	73.1	70.0-130	12/05/20 18:21	

LABORATORY CONTROL SAMPLE & LCSD: R3601131-1 R3601131-2

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	1020	84.2	85.0	70.0-130	0.985	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1360	95.0	97.1	70.0-130	2.23	25	
Total VPH	ug/L	2800	2530	2570	90.4	91.8	70.0-130	1.57	25	
2,5-Dibromotoluene (FID)	%				83.6	84.9	70.0-130			
2,5-Dibromotoluene (PID)	%				78.7	79.6	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

QC Batch: 1588008 Analysis Method: MADEP VPH
QC Batch Method: MADEPV Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508884001, 92508884002, 92508884003, 92508884004, 92508884005

METHOD BLANK: R3601876-2 Matrix: Water
Associated Lab Samples: 92508884001, 92508884002, 92508884003, 92508884004, 92508884005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/09/20 06:27	
2,5-Dibromotoluene (FID)	%	92.7	70.0-130	12/09/20 06:27	
2,5-Dibromotoluene (PID)	%	90.4	70.0-130	12/09/20 06:27	

LABORATORY CONTROL SAMPLE & LCSD: R3601876-1 R3601876-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	200	228	232	114	116	70.0-130	1.74	25	
2,5-Dibromotoluene (FID)	%				102	90.7	70.0-130			
2,5-Dibromotoluene (PID)	%				103	88.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

QC Batch: 584980 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92508884001, 92508884002, 92508884003, 92508884004, 92508884005

METHOD BLANK: 3092225 Matrix: Water
Associated Lab Samples: 92508884001, 92508884002, 92508884003, 92508884004, 92508884005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/08/20 08:23	BC

LABORATORY CONTROL SAMPLE: 3092226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	264	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092227 3092228

Parameter	Units	92508881001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	38.6	250	250	282	282	98	97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

QC Batch: 584648 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92508884001, 92508884002, 92508884003, 92508884004, 92508884006

METHOD BLANK: 3090477 Matrix: Water
Associated Lab Samples: 92508884001, 92508884002, 92508884003, 92508884004, 92508884006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1-Dichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1-Dichloroethene	ug/L	ND	0.50	12/04/20 14:11	
1,1-Dichloropropene	ug/L	ND	0.50	12/04/20 14:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/04/20 14:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/04/20 14:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/04/20 14:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/04/20 14:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dichloropropane	ug/L	ND	0.50	12/04/20 14:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/04/20 14:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
1,3-Dichloropropane	ug/L	ND	0.50	12/04/20 14:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
2,2-Dichloropropane	ug/L	ND	0.50	12/04/20 14:11	
2-Chlorotoluene	ug/L	ND	0.50	12/04/20 14:11	
4-Chlorotoluene	ug/L	ND	0.50	12/04/20 14:11	
Benzene	ug/L	ND	0.50	12/04/20 14:11	
Bromobenzene	ug/L	ND	0.50	12/04/20 14:11	
Bromochloromethane	ug/L	ND	0.50	12/04/20 14:11	
Bromodichloromethane	ug/L	ND	0.50	12/04/20 14:11	
Bromoform	ug/L	ND	0.50	12/04/20 14:11	
Bromomethane	ug/L	ND	5.0	12/04/20 14:11	
Carbon tetrachloride	ug/L	ND	0.50	12/04/20 14:11	
Chlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
Chloroethane	ug/L	ND	1.0	12/04/20 14:11	
Chloroform	ug/L	ND	0.50	12/04/20 14:11	
Chloromethane	ug/L	ND	1.0	12/04/20 14:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/04/20 14:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/04/20 14:11	
Dibromochloromethane	ug/L	ND	0.50	12/04/20 14:11	
Dibromomethane	ug/L	ND	0.50	12/04/20 14:11	
Dichlorodifluoromethane	ug/L	ND	0.50	12/04/20 14:11	
Diisopropyl ether	ug/L	ND	0.50	12/04/20 14:11	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

METHOD BLANK: 3090477 Matrix: Water
Associated Lab Samples: 92508884001, 92508884002, 92508884003, 92508884004, 92508884006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/04/20 14:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/04/20 14:11	
m&p-Xylene	ug/L	ND	1.0	12/04/20 14:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/04/20 14:11	
Methylene Chloride	ug/L	ND	2.0	12/04/20 14:11	
n-Butylbenzene	ug/L	ND	0.50	12/04/20 14:11	
n-Propylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Naphthalene	ug/L	ND	2.0	12/04/20 14:11	
o-Xylene	ug/L	ND	0.50	12/04/20 14:11	
sec-Butylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Styrene	ug/L	ND	0.50	12/04/20 14:11	
tert-Butylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Tetrachloroethene	ug/L	ND	0.50	12/04/20 14:11	
Toluene	ug/L	ND	0.50	12/04/20 14:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/04/20 14:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/04/20 14:11	
Trichloroethene	ug/L	ND	0.50	12/04/20 14:11	
Trichlorofluoromethane	ug/L	ND	1.0	12/04/20 14:11	
Vinyl chloride	ug/L	ND	1.0	12/04/20 14:11	
1,2-Dichloroethane-d4 (S)	%	92	70-130	12/04/20 14:11	
4-Bromofluorobenzene (S)	%	97	70-130	12/04/20 14:11	
Toluene-d8 (S)	%	102	70-130	12/04/20 14:11	

LABORATORY CONTROL SAMPLE: 3090478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.2	90	60-140	
1,1,1-Trichloroethane	ug/L	50	43.9	88	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	60-140	
1,1,2-Trichloroethane	ug/L	50	45.4	91	60-140	
1,1-Dichloroethane	ug/L	50	47.2	94	60-140	
1,1-Dichloroethene	ug/L	50	42.0	84	60-140	
1,1-Dichloropropene	ug/L	50	48.5	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.4	95	60-140	
1,2,3-Trichloropropane	ug/L	50	42.9	86	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.4	87	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.8	100	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	47.4	95	60-140	
1,2-Dichlorobenzene	ug/L	50	45.8	92	60-140	
1,2-Dichloroethane	ug/L	50	37.5	75	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	44.7	89	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

LABORATORY CONTROL SAMPLE: 3090478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.2	92	60-140	
1,3-Dichloropropane	ug/L	50	49.7	99	60-140	
1,4-Dichlorobenzene	ug/L	50	46.8	94	60-140	
2,2-Dichloropropane	ug/L	50	45.4	91	60-140	
2-Chlorotoluene	ug/L	50	45.9	92	60-140	
4-Chlorotoluene	ug/L	50	44.9	90	60-140	
Benzene	ug/L	50	46.8	94	60-140	
Bromobenzene	ug/L	50	45.8	92	60-140	
Bromochloromethane	ug/L	50	47.6	95	60-140	
Bromodichloromethane	ug/L	50	41.6	83	60-140	
Bromoform	ug/L	50	42.2	84	60-140	
Bromomethane	ug/L	50	43.2	86	60-140	
Carbon tetrachloride	ug/L	50	41.1	82	60-140	
Chlorobenzene	ug/L	50	46.5	93	60-140	
Chloroethane	ug/L	50	36.8	74	60-140	
Chloroform	ug/L	50	44.3	89	60-140	
Chloromethane	ug/L	50	39.3	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.0	88	60-140	
cis-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Dibromochloromethane	ug/L	50	48.3	97	60-140	
Dibromomethane	ug/L	50	41.9	84	60-140	
Dichlorodifluoromethane	ug/L	50	38.6	77	60-140	
Diisopropyl ether	ug/L	50	45.2	90	60-140	
Ethylbenzene	ug/L	50	45.7	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.5	95	60-140	
Isopropylbenzene (Cumene)	ug/L	50	46.7	93	60-140	
m&p-Xylene	ug/L	100	90.2	90	60-140	
Methyl-tert-butyl ether	ug/L	50	44.9	90	60-140	
Methylene Chloride	ug/L	50	42.8	86	60-140	
n-Butylbenzene	ug/L	50	47.3	95	60-140	
n-Propylbenzene	ug/L	50	46.8	94	60-140	
Naphthalene	ug/L	50	50.6	101	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	46.6	93	60-140	
Styrene	ug/L	50	48.5	97	60-140	
tert-Butylbenzene	ug/L	50	39.0	78	60-140	
Tetrachloroethene	ug/L	50	45.8	92	60-140	
Toluene	ug/L	50	43.8	88	60-140	
trans-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
trans-1,3-Dichloropropene	ug/L	50	44.2	88	60-140	
Trichloroethene	ug/L	50	44.5	89	60-140	
Trichlorofluoromethane	ug/L	50	37.0	74	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090479 3090480

Parameter	Units	92508857002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<8.4	400	400	390	345	97	86	60-140	12	
1,1,1-Trichloroethane	ug/L	<5.6	400	400	408	358	102	89	60-140	13	
1,1,2,2-Tetrachloroethane	ug/L	<3.9	400	400	416	364	104	91	60-140	13	
1,1,2-Trichloroethane	ug/L	<4.6	400	400	402	349	100	87	60-140	14	
1,1-Dichloroethane	ug/L	<4.9	400	400	438	393	110	98	60-140	11	
1,1-Dichloroethene	ug/L	<4.4	400	400	406	362	101	90	60-140	11	
1,1-Dichloropropene	ug/L	<7.0	400	400	441	387	110	97	60-140	13	
1,2,3-Trichlorobenzene	ug/L	<15.6	400	400	346	338	86	84	60-140	2	
1,2,3-Trichloropropane	ug/L	<5.4	400	400	388	343	97	86	60-140	12	
1,2,4-Trichlorobenzene	ug/L	<8.7	400	400	349	331	87	83	60-140	5	
1,2,4-Trimethylbenzene	ug/L	710	400	400	1120	1120	101	102	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	<7.7	400	400	398	369	99	92	60-140	7	
1,2-Dibromoethane (EDB)	ug/L	290	400	400	705	678	104	97	60-140	4	
1,2-Dichlorobenzene	ug/L	<4.8	400	400	380	339	95	85	60-140	11	
1,2-Dichloroethane	ug/L	1020	400	400	1440	1510	104	121	60-140	5	
1,2-Dichloropropane	ug/L	17.4	400	400	458	406	110	97	60-140	12	
1,3,5-Trimethylbenzene	ug/L	373	400	400	775	751	101	94	60-140	3	
1,3-Dichlorobenzene	ug/L	<5.0	400	400	380	337	95	84	60-140	12	
1,3-Dichloropropane	ug/L	<6.8	400	400	436	383	109	96	60-140	13	
1,4-Dichlorobenzene	ug/L	<5.0	400	400	382	341	96	85	60-140	11	
2,2-Dichloropropane	ug/L	<5.6	400	400	361	326	90	82	60-140	10	
2-Chlorotoluene	ug/L	<4.1	400	400	413	364	103	91	60-140	13	
4-Chlorotoluene	ug/L	<4.1	400	400	388	338	97	85	60-140	14	
Benzene	ug/L	1740	400	400	2160	2330	104	147	60-140	8	M1
Bromobenzene	ug/L	<4.3	400	400	392	343	98	86	60-140	13	
Bromochloromethane	ug/L	<5.2	400	400	415	363	104	91	60-140	13	
Bromodichloromethane	ug/L	<3.7	400	400	365	325	91	81	60-140	12	
Bromoform	ug/L	<8.1	400	400	329	295	82	74	60-140	11	
Bromomethane	ug/L	<34.4	400	400	321	333	80	83	60-140	4	
Carbon tetrachloride	ug/L	<4.6	400	400	344	321	86	80	60-140	7	
Chlorobenzene	ug/L	<4.5	400	400	403	346	101	87	60-140	15	
Chloroethane	ug/L	<11.7	400	400	367	346	92	87	60-140	6	
Chloroform	ug/L	<7.1	400	400	395	369	99	92	60-140	7	
Chloromethane	ug/L	<8.3	400	400	361	354	90	88	60-140	2	
cis-1,2-Dichloroethene	ug/L	<4.1	400	400	396	362	99	90	60-140	9	
cis-1,3-Dichloropropene	ug/L	<7.1	400	400	401	361	100	90	60-140	11	
Dibromochloromethane	ug/L	<8.0	400	400	401	342	100	85	60-140	16	
Dibromomethane	ug/L	<6.2	400	400	359	327	90	82	60-140	9	
Dichlorodifluoromethane	ug/L	<5.7	400	400	358	327	90	82	60-140	9	
Diisopropyl ether	ug/L	2140	400	400	2720	2900	144	190	60-140	6	M1
Ethylbenzene	ug/L	177	400	400	586	533	102	89	60-140	9	
Hexachloro-1,3-butadiene	ug/L	<24.0	400	400	358	329	90	82	60-140	9	
Isopropylbenzene (Cumene)	ug/L	<4.8	400	400	416	367	104	92	60-140	12	
m&p-Xylene	ug/L	2350	800	800	3170	3190	102	105	60-140	1	
Methyl-tert-butyl ether	ug/L	295	400	400	698	686	101	98	60-140	2	
Methylene Chloride	ug/L	<30.0	400	400	403	361	101	90	60-140	11	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090479 3090480

Parameter	Units	92508857002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<7.1	400	400	421	380	105	95	60-140	10	
n-Propylbenzene	ug/L	<4.8	400	400	418	377	104	94	60-140	10	
Naphthalene	ug/L	433	400	400	840	879	102	112	60-140	5	
o-Xylene	ug/L	1910	400	400	2330	2390	106	120	60-140	2	
sec-Butylbenzene	ug/L	<4.9	400	400	410	364	103	91	60-140	12	
Styrene	ug/L	<5.1	400	400	413	371	103	93	60-140	11	
tert-Butylbenzene	ug/L	<5.0	400	400	343	304	86	76	60-140	12	
Tetrachloroethene	ug/L	<4.6	400	400	384	330	96	83	60-140	15	
Toluene	ug/L	2420	400	400	2820	2990	99	142	60-140	6	M1
trans-1,2-Dichloroethene	ug/L	<5.1	400	400	422	383	106	96	60-140	10	
trans-1,3-Dichloropropene	ug/L	<7.9	400	400	374	335	93	84	60-140	11	
Trichloroethene	ug/L	<4.6	400	400	393	344	98	86	60-140	13	
Trichlorofluoromethane	ug/L	<6.7	400	400	358	320	89	80	60-140	11	
Vinyl chloride	ug/L	<8.1	400	400	409	367	102	92	60-140	11	
1,2-Dichloroethane-d4 (S)	%						95	100	70-130		
4-Bromofluorobenzene (S)	%						99	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

QC Batch: 585040
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508884005

METHOD BLANK: 3092613 Matrix: Water
Associated Lab Samples: 92508884005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/07/20 23:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/07/20 23:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/07/20 23:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
1,3-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
2,2-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
2-Chlorotoluene	ug/L	ND	0.50	12/07/20 23:15	
4-Chlorotoluene	ug/L	ND	0.50	12/07/20 23:15	
Benzene	ug/L	ND	0.50	12/07/20 23:15	
Bromobenzene	ug/L	ND	0.50	12/07/20 23:15	
Bromochloromethane	ug/L	ND	0.50	12/07/20 23:15	
Bromodichloromethane	ug/L	ND	0.50	12/07/20 23:15	
Bromoform	ug/L	ND	0.50	12/07/20 23:15	
Bromomethane	ug/L	ND	5.0	12/07/20 23:15	
Carbon tetrachloride	ug/L	ND	0.50	12/07/20 23:15	
Chlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
Chloroethane	ug/L	ND	1.0	12/07/20 23:15	
Chloroform	ug/L	ND	0.50	12/07/20 23:15	
Chloromethane	ug/L	ND	1.0	12/07/20 23:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
Dibromochloromethane	ug/L	ND	0.50	12/07/20 23:15	
Dibromomethane	ug/L	ND	0.50	12/07/20 23:15	
Dichlorodifluoromethane	ug/L	ND	0.50	12/07/20 23:15	
Diisopropyl ether	ug/L	ND	0.50	12/07/20 23:15	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

METHOD BLANK: 3092613 Matrix: Water
Associated Lab Samples: 92508884005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/07/20 23:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/07/20 23:15	
m&p-Xylene	ug/L	ND	1.0	12/07/20 23:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/07/20 23:15	
Methylene Chloride	ug/L	ND	2.0	12/07/20 23:15	
n-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
n-Propylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Naphthalene	ug/L	ND	2.0	12/07/20 23:15	
o-Xylene	ug/L	ND	0.50	12/07/20 23:15	
sec-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Styrene	ug/L	ND	0.50	12/07/20 23:15	
tert-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Tetrachloroethene	ug/L	ND	0.50	12/07/20 23:15	
Toluene	ug/L	ND	0.50	12/07/20 23:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
Trichloroethene	ug/L	ND	0.50	12/07/20 23:15	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/20 23:15	
Vinyl chloride	ug/L	ND	1.0	12/07/20 23:15	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/07/20 23:15	
4-Bromofluorobenzene (S)	%	102	70-130	12/07/20 23:15	
Toluene-d8 (S)	%	101	70-130	12/07/20 23:15	

LABORATORY CONTROL SAMPLE: 3092614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	59.2	118	60-140	
1,1,1-Trichloroethane	ug/L	50	52.4	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,2-Trichloroethane	ug/L	50	49.2	98	60-140	
1,1-Dichloroethane	ug/L	50	49.7	99	60-140	
1,1-Dichloroethene	ug/L	50	49.5	99	60-140	
1,1-Dichloropropene	ug/L	50	51.9	104	60-140	
1,2,3-Trichlorobenzene	ug/L	50	51.4	103	60-140	
1,2,3-Trichloropropane	ug/L	50	51.1	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.0	112	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.7	111	60-140	
1,2-Dichlorobenzene	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane	ug/L	50	46.8	94	60-140	
1,2-Dichloropropane	ug/L	50	52.2	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.8	102	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

LABORATORY CONTROL SAMPLE: 3092614

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	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	56.3	113	60-140	
2-Chlorotoluene	ug/L	50	51.8	104	60-140	
4-Chlorotoluene	ug/L	50	49.9	100	60-140	
Benzene	ug/L	50	49.6	99	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	49.3	99	60-140	
Bromodichloromethane	ug/L	50	47.3	95	60-140	
Bromoform	ug/L	50	57.9	116	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	53.0	106	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	41.9	84	60-140	
Chloroform	ug/L	50	47.8	96	60-140	
Chloromethane	ug/L	50	42.2	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	60-140	
Dibromochloromethane	ug/L	50	59.0	118	60-140	
Dibromomethane	ug/L	50	48.8	98	60-140	
Dichlorodifluoromethane	ug/L	50	40.1	80	60-140	
Diisopropyl ether	ug/L	50	49.1	98	60-140	
Ethylbenzene	ug/L	50	50.1	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	53.4	107	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	49.2	98	60-140	
Methylene Chloride	ug/L	50	46.7	93	60-140	
n-Butylbenzene	ug/L	50	52.9	106	60-140	
n-Propylbenzene	ug/L	50	51.2	102	60-140	
Naphthalene	ug/L	50	51.3	103	60-140	
o-Xylene	ug/L	50	51.7	103	60-140	
sec-Butylbenzene	ug/L	50	50.8	102	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	43.7	87	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.0	110	60-140	
Trichloroethene	ug/L	50	48.6	97	60-140	
Trichlorofluoromethane	ug/L	50	44.9	90	60-140	
Vinyl chloride	ug/L	50	44.3	89	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092615 3092616

Parameter	Units	92509560004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	28.4	23.9	142	119	60-140	17	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	25.6	22.3	128	111	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	24.9	21.9	125	109	60-140	13	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	20.5	120	102	60-140	16	
1,1-Dichloroethane	ug/L	ND	20	20	25.2	21.6	126	108	60-140	16	
1,1-Dichloroethene	ug/L	ND	20	20	25.2	21.4	126	107	60-140	16	
1,1-Dichloropropene	ug/L	ND	20	20	25.1	21.8	126	109	60-140	14	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.5	20.8	118	104	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	20	20	25.7	21.6	129	108	60-140	18	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.5	20.6	112	103	60-140	9	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.1	20.7	110	103	60-140	6	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	27.6	23.6	138	118	60-140	16	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	27.0	23.1	135	116	60-140	15	
1,2-Dichlorobenzene	ug/L	ND	20	20	23.0	20.9	115	105	60-140	9	
1,2-Dichloroethane	ug/L	ND	20	20	22.3	19.7	112	98	60-140	13	
1,2-Dichloropropane	ug/L	ND	20	20	25.7	21.9	128	109	60-140	16	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	21.1	116	106	60-140	10	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.3	21.1	117	105	60-140	10	
1,3-Dichloropropane	ug/L	ND	20	20	27.3	23.8	137	119	60-140	14	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.6	20.1	113	101	60-140	12	
2,2-Dichloropropane	ug/L	ND	20	20	29.0	23.9	145	120	60-140	19	M1
2-Chlorotoluene	ug/L	ND	20	20	23.8	21.7	119	108	60-140	9	
4-Chlorotoluene	ug/L	ND	20	20	23.1	20.9	115	105	60-140	10	
Benzene	ug/L	ND	20	20	25.1	21.7	125	108	60-140	15	
Bromobenzene	ug/L	ND	20	20	23.1	21.2	115	106	60-140	8	
Bromochloromethane	ug/L	ND	20	20	23.5	21.3	118	106	60-140	10	
Bromodichloromethane	ug/L	ND	20	20	23.5	20.2	118	101	60-140	15	
Bromoform	ug/L	ND	20	20	26.3	22.9	131	114	60-140	14	
Bromomethane	ug/L	ND	20	20	23.3	19.3	116	96	60-140	19	
Carbon tetrachloride	ug/L	ND	20	20	27.0	23.5	135	118	60-140	14	
Chlorobenzene	ug/L	ND	20	20	24.4	20.9	122	105	60-140	15	
Chloroethane	ug/L	ND	20	20	23.6	20.9	118	105	60-140	12	
Chloroform	ug/L	2.9	20	20	26.8	23.9	119	105	60-140	12	
Chloromethane	ug/L	ND	20	20	19.7	17.2	99	86	60-140	14	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.9	20.7	119	104	60-140	14	
cis-1,3-Dichloropropene	ug/L	ND	20	20	26.2	22.5	131	112	60-140	15	
Dibromochloromethane	ug/L	ND	20	20	28.0	23.1	140	116	60-140	19	
Dibromomethane	ug/L	ND	20	20	23.9	20.5	120	102	60-140	16	
Dichlorodifluoromethane	ug/L	ND	20	20	16.7	14.4	83	72	60-140	15	
Diisopropyl ether	ug/L	ND	20	20	22.8	19.7	114	99	60-140	14	
Ethylbenzene	ug/L	ND	20	20	24.3	21.3	121	107	60-140	13	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	26.6	24.6	133	123	60-140	8	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.3	21.4	122	107	60-140	13	
m&p-Xylene	ug/L	ND	40	40	49.4	42.9	124	107	60-140	14	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.8	20.0	114	100	60-140	13	
Methylene Chloride	ug/L	ND	20	20	22.8	20.0	114	100	60-140	13	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092615 3092616

Parameter	Units	92509560004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	23.8	22.2	119	111	60-140	7	
n-Propylbenzene	ug/L	ND	20	20	23.3	21.3	117	107	60-140	9	
Naphthalene	ug/L	ND	20	20	22.9	21.0	115	105	60-140	9	
o-Xylene	ug/L	ND	20	20	23.9	21.9	120	109	60-140	9	
sec-Butylbenzene	ug/L	ND	20	20	23.8	21.9	119	109	60-140	8	
Styrene	ug/L	ND	20	20	24.0	21.1	120	105	60-140	13	
tert-Butylbenzene	ug/L	ND	20	20	20.7	18.5	104	92	60-140	12	
Tetrachloroethene	ug/L	ND	20	20	22.0	20.3	110	102	60-140	8	
Toluene	ug/L	ND	20	20	23.0	20.1	115	100	60-140	13	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.8	21.7	124	108	60-140	13	
trans-1,3-Dichloropropene	ug/L	ND	20	20	26.0	22.1	130	111	60-140	16	
Trichloroethene	ug/L	ND	20	20	23.7	21.2	118	106	60-140	11	
Trichlorofluoromethane	ug/L	ND	20	20	22.3	19.8	111	99	60-140	12	
Vinyl chloride	ug/L	ND	20	20	20.7	18.1	104	90	60-140	14	
1,2-Dichloroethane-d4 (S)	%						101	100	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

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

BC	The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508884

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508884001	**MW-16**	MADEPV	1587240	MADEP VPH	1587240
92508884001	**MW-16**	MADEPV	1588008	MADEP VPH	1588008
92508884002	**MW-17**	MADEPV	1587240	MADEP VPH	1587240
92508884002	**MW-17**	MADEPV	1588008	MADEP VPH	1588008
92508884003	**MW-21**	MADEPV	1587240	MADEP VPH	1587240
92508884003	**MW-21**	MADEPV	1588008	MADEP VPH	1588008
92508884004	**MW-23**	MADEPV	1587240	MADEP VPH	1587240
92508884004	**MW-23**	MADEPV	1588008	MADEP VPH	1588008
92508884005	**MW-40**	MADEPV	1587240	MADEP VPH	1587240
92508884005	**MW-40**	MADEPV	1588008	MADEP VPH	1588008
92508884001	**MW-16**	EPA 3010A	584980	EPA 6010D	585026
92508884002	**MW-17**	EPA 3010A	584980	EPA 6010D	585026
92508884003	**MW-21**	EPA 3010A	584980	EPA 6010D	585026
92508884004	**MW-23**	EPA 3010A	584980	EPA 6010D	585026
92508884005	**MW-40**	EPA 3010A	584980	EPA 6010D	585026
92508884001	**MW-16**	SM 6200B	584648		
92508884002	**MW-17**	SM 6200B	584648		
92508884003	**MW-21**	SM 6200B	584648		
92508884004	**MW-23**	SM 6200B	584648		
92508884005	**MW-40**	SM 6200B	585040		
92508884006	**Trip Blank**	SM 6200B	584648		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 92508884

92508884

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 12/2/20 LDH

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: 4.2 **Correction Factor:** Add/Subtract (°C) -0.1 Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 4.2 ☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)

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

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

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

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

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

Project

WO# : 92508884

PM: NMG Due Date: 12/08/20

CLIENT: 92-AECOM CHA

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)	VOAM (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																2													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	AECOM	Report To:	Andrew Wreschnig	Attention:	
Address:	6000 Fairview Road	Copy To:		Company Name:	
Suite 200, Charlotte, NC 28226				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone: (704)522-0330	Fax	Project Name:	Colonial Pipeline	Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	12518-3

Regulatory Agency	
State / Location	NC

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: 6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	92508884
1	MW-16	WT	G			12/1	1410		8				X						X	X	X			001
2	MW-17						1440																	002
3	MW-21						1140																	003
4	MW-23						1530																	004
5	MW-40						1510																	005
6	Trip Blank						Lab		Provided													X		006
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME		ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Emily R. Love / AECOM	12/1/20	1703	CDH	PACE HNC	12/1/20	1703	4.2	Y	N	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Emily Love					
SIGNATURE of SAMPLER:	Emily R. Love	DATE Signed: 12/1/2020				

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 10, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508886001	**MW-8**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508886002	**MW-44**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508886003	**MW-60**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508886004	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Sample: MW-8 **Lab ID: 92508886001** Collected: 12/01/20 15:45 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/05/20 23:53	12/05/20 23:53		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/05/20 23:53	12/05/20 23:53		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 18:48	12/09/20 18:48	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/05/20 23:53	12/05/20 23:53	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	85.7	%	70.0-130	1	12/05/20 23:53	12/05/20 23:53	615-59-8FID	
2,5-Dibromotoluene (FID)	103	%	70.0-130	1	12/09/20 18:48	12/09/20 18:48	615-59-8FID	
2,5-Dibromotoluene (PID)	78.3	%	70.0-130	1	12/05/20 23:53	12/05/20 23:53	615-59-8PID	
2,5-Dibromotoluene (PID)	101	%	70.0-130	1	12/09/20 18:48	12/09/20 18:48	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**9.7**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:37	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 00:44	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 00:44	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 00:44	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 00:44	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 00:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 00:44	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 00:44	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 00:44	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 00:44	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 00:44	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 00:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 00:44	75-00-3	
Chloroform	**0.96**	ug/L	0.50	1		12/08/20 00:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 00:44	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 00:44	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 00:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 00:44	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 00:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 00:44	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 00:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 00:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 00:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 00:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 00:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 00:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 00:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 00:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 00:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 00:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 00:44	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Sample: MW-8 **Lab ID: 92508886001** Collected: 12/01/20 15:45 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 00:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 00:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 00:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 00:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 00:44	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 00:44	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 00:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 00:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 00:44	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 00:44	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 00:44	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 00:44	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 00:44	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 00:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 00:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 00:44	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 00:44	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 00:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 00:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 00:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 00:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 00:44	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 00:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 00:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 00:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 00:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 00:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 00:44	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 00:44	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 00:44	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/08/20 00:44	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/08/20 00:44	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/08/20 00:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Sample: MW-44 **Lab ID: 92508886002** Collected: 12/01/20 14:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/06/20 00:27	12/06/20 00:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/06/20 00:27	12/06/20 00:27		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 19:22	12/09/20 19:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/06/20 00:27	12/06/20 00:27	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.8	%	70.0-130	1	12/06/20 00:27	12/06/20 00:27	615-59-8FID	
2,5-Dibromotoluene (FID)	94.8	%	70.0-130	1	12/09/20 19:22	12/09/20 19:22	615-59-8FID	
2,5-Dibromotoluene (PID)	80.9	%	70.0-130	1	12/06/20 00:27	12/06/20 00:27	615-59-8PID	
2,5-Dibromotoluene (PID)	92.7	%	70.0-130	1	12/09/20 19:22	12/09/20 19:22	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**8.9**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:40	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 18:40	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 18:40	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 18:40	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 18:40	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 18:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 18:40	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 18:40	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 18:40	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 18:40	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 18:40	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 18:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 18:40	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/04/20 18:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 18:40	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 18:40	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 18:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 18:40	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 18:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 18:40	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 18:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 18:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 18:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 18:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 18:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 18:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 18:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 18:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 18:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 18:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 18:40	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Sample: MW-44 **Lab ID: 92508886002** Collected: 12/01/20 14:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 18:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 18:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 18:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 18:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 18:40	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 18:40	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 18:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 18:40	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 18:40	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 18:40	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 18:40	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 18:40	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 18:40	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 18:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 18:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 18:40	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 18:40	127-18-4	
Toluene	**1.4**	ug/L	0.50	1		12/04/20 18:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 18:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 18:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 18:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 18:40	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 18:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 18:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 18:40	96-18-4	
1,2,4-Trimethylbenzene	**0.55**	ug/L	0.50	1		12/04/20 18:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 18:40	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 18:40	75-01-4	
m&p-Xylene	**1.3**	ug/L	1.0	1		12/04/20 18:40	179601-23-1	
o-Xylene	**0.56**	ug/L	0.50	1		12/04/20 18:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/04/20 18:40	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		12/04/20 18:40	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/04/20 18:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Sample: MW-60 **Lab ID: 92508886003** Collected: 12/01/20 14:30 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/06/20 01:00	12/06/20 01:00		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/06/20 01:00	12/06/20 01:00		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 19:55	12/09/20 19:55	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/06/20 01:00	12/06/20 01:00	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.4	%	70.0-130	1	12/06/20 01:00	12/06/20 01:00	615-59-8FID	
2,5-Dibromotoluene (FID)	97.3	%	70.0-130	1	12/09/20 19:55	12/09/20 19:55	615-59-8FID	
2,5-Dibromotoluene (PID)	83.4	%	70.0-130	1	12/06/20 01:00	12/06/20 01:00	615-59-8PID	
2,5-Dibromotoluene (PID)	96.1	%	70.0-130	1	12/09/20 19:55	12/09/20 19:55	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**16.4**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:43	7439-92-1	BC
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 18:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 18:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 18:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 18:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 18:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 18:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 18:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 18:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 18:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 18:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 18:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 18:57	75-00-3	
Chloroform	**1.5**	ug/L	0.50	1		12/04/20 18:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 18:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 18:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 18:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 18:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 18:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 18:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 18:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 18:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 18:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 18:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 18:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 18:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 18:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 18:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 18:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 18:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 18:57	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Sample: MW-60 **Lab ID: 92508886003** Collected: 12/01/20 14:30 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 18:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 18:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 18:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 18:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 18:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 18:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 18:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 18:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 18:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 18:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 18:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 18:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 18:57	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 18:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 18:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 18:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 18:57	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 18:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 18:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 18:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 18:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 18:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 18:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 18:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 18:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 18:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 18:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 18:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 18:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 18:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/04/20 18:57	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/04/20 18:57	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/04/20 18:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Sample: Trip Blank **Lab ID: 92508886004** Collected: 12/01/20 00:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 15:41	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 15:41	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 15:41	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 15:41	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 15:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 15:41	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 15:41	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 15:41	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 15:41	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 15:41	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 15:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 15:41	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/04/20 15:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 15:41	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 15:41	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 15:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 15:41	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 15:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 15:41	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 15:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 15:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 15:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 15:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 15:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 15:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 15:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 15:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 15:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 15:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 15:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 15:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 15:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 15:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 15:41	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 15:41	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 15:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 15:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 15:41	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 15:41	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 15:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 15:41	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 15:41	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 15:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 15:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 15:41	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Sample: Trip Blank **Lab ID: 92508886004** Collected: 12/01/20 00:00 Received: 12/01/20 17:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 15:41	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 15:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 15:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 15:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 15:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 15:41	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 15:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 15:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 15:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 15:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 15:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 15:41	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 15:41	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 15:41	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		12/04/20 15:41	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/04/20 15:41	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/04/20 15:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

QC Batch: 1587240 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508886001, 92508886002, 92508886003

METHOD BLANK: R3601131-3 Matrix: Water
Associated Lab Samples: 92508886001, 92508886002, 92508886003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/05/20 18:21	
Aliphatic (C09-C12)	ug/L	ND	100	12/05/20 18:21	
Total VPH	ug/L	ND	100	12/05/20 18:21	
2,5-Dibromotoluene (FID)	%	79.9	70.0-130	12/05/20 18:21	
2,5-Dibromotoluene (PID)	%	73.1	70.0-130	12/05/20 18:21	

LABORATORY CONTROL SAMPLE & LCSD: R3601131-1 R3601131-2

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	1020	84.2	85.0	70.0-130	0.985	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1360	95.0	97.1	70.0-130	2.23	25	
Total VPH	ug/L	2800	2530	2570	90.4	91.8	70.0-130	1.57	25	
2,5-Dibromotoluene (FID)	%				83.6	84.9	70.0-130			
2,5-Dibromotoluene (PID)	%				78.7	79.6	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

QC Batch: 1588008 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508886001, 92508886002, 92508886003

METHOD BLANK: R3601876-2 Matrix: Water
Associated Lab Samples: 92508886001, 92508886002, 92508886003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/09/20 06:27	
2,5-Dibromotoluene (FID)	%	92.7	70.0-130	12/09/20 06:27	
2,5-Dibromotoluene (PID)	%	90.4	70.0-130	12/09/20 06:27	

LABORATORY CONTROL SAMPLE & LCSD: R3601876-1 R3601876-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	200	228	232	114	116	70.0-130	1.74	25	
2,5-Dibromotoluene (FID)	%				102	90.7	70.0-130			
2,5-Dibromotoluene (PID)	%				103	88.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

QC Batch: 584980
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92508886001, 92508886002, 92508886003

METHOD BLANK: 3092225 Matrix: Water
Associated Lab Samples: 92508886001, 92508886002, 92508886003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/08/20 08:23	BC

LABORATORY CONTROL SAMPLE: 3092226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	264	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092227 3092228

Parameter	Units	92508881001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	38.6	250	250	282	282	98	97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

QC Batch: 584648
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92508886002, 92508886003, 92508886004

METHOD BLANK: 3090477 Matrix: Water
Associated Lab Samples: 92508886002, 92508886003, 92508886004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1-Dichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,1-Dichloroethene	ug/L	ND	0.50	12/04/20 14:11	
1,1-Dichloropropene	ug/L	ND	0.50	12/04/20 14:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/04/20 14:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/04/20 14:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/04/20 14:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/04/20 14:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dichloroethane	ug/L	ND	0.50	12/04/20 14:11	
1,2-Dichloropropane	ug/L	ND	0.50	12/04/20 14:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/04/20 14:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
1,3-Dichloropropane	ug/L	ND	0.50	12/04/20 14:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
2,2-Dichloropropane	ug/L	ND	0.50	12/04/20 14:11	
2-Chlorotoluene	ug/L	ND	0.50	12/04/20 14:11	
4-Chlorotoluene	ug/L	ND	0.50	12/04/20 14:11	
Benzene	ug/L	ND	0.50	12/04/20 14:11	
Bromobenzene	ug/L	ND	0.50	12/04/20 14:11	
Bromochloromethane	ug/L	ND	0.50	12/04/20 14:11	
Bromodichloromethane	ug/L	ND	0.50	12/04/20 14:11	
Bromoform	ug/L	ND	0.50	12/04/20 14:11	
Bromomethane	ug/L	ND	5.0	12/04/20 14:11	
Carbon tetrachloride	ug/L	ND	0.50	12/04/20 14:11	
Chlorobenzene	ug/L	ND	0.50	12/04/20 14:11	
Chloroethane	ug/L	ND	1.0	12/04/20 14:11	
Chloroform	ug/L	ND	0.50	12/04/20 14:11	
Chloromethane	ug/L	ND	1.0	12/04/20 14:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/04/20 14:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/04/20 14:11	
Dibromochloromethane	ug/L	ND	0.50	12/04/20 14:11	
Dibromomethane	ug/L	ND	0.50	12/04/20 14:11	
Dichlorodifluoromethane	ug/L	ND	0.50	12/04/20 14:11	
Diisopropyl ether	ug/L	ND	0.50	12/04/20 14:11	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

METHOD BLANK: 3090477 Matrix: Water
Associated Lab Samples: 92508886002, 92508886003, 92508886004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/04/20 14:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/04/20 14:11	
m&p-Xylene	ug/L	ND	1.0	12/04/20 14:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/04/20 14:11	
Methylene Chloride	ug/L	ND	2.0	12/04/20 14:11	
n-Butylbenzene	ug/L	ND	0.50	12/04/20 14:11	
n-Propylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Naphthalene	ug/L	ND	2.0	12/04/20 14:11	
o-Xylene	ug/L	ND	0.50	12/04/20 14:11	
sec-Butylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Styrene	ug/L	ND	0.50	12/04/20 14:11	
tert-Butylbenzene	ug/L	ND	0.50	12/04/20 14:11	
Tetrachloroethene	ug/L	ND	0.50	12/04/20 14:11	
Toluene	ug/L	ND	0.50	12/04/20 14:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/04/20 14:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/04/20 14:11	
Trichloroethene	ug/L	ND	0.50	12/04/20 14:11	
Trichlorofluoromethane	ug/L	ND	1.0	12/04/20 14:11	
Vinyl chloride	ug/L	ND	1.0	12/04/20 14:11	
1,2-Dichloroethane-d4 (S)	%	92	70-130	12/04/20 14:11	
4-Bromofluorobenzene (S)	%	97	70-130	12/04/20 14:11	
Toluene-d8 (S)	%	102	70-130	12/04/20 14:11	

LABORATORY CONTROL SAMPLE: 3090478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.2	90	60-140	
1,1,1-Trichloroethane	ug/L	50	43.9	88	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	60-140	
1,1,2-Trichloroethane	ug/L	50	45.4	91	60-140	
1,1-Dichloroethane	ug/L	50	47.2	94	60-140	
1,1-Dichloroethene	ug/L	50	42.0	84	60-140	
1,1-Dichloropropene	ug/L	50	48.5	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.4	95	60-140	
1,2,3-Trichloropropane	ug/L	50	42.9	86	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	43.4	87	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.8	100	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	47.4	95	60-140	
1,2-Dichlorobenzene	ug/L	50	45.8	92	60-140	
1,2-Dichloroethane	ug/L	50	37.5	75	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	44.7	89	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

LABORATORY CONTROL SAMPLE: 3090478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.2	92	60-140	
1,3-Dichloropropane	ug/L	50	49.7	99	60-140	
1,4-Dichlorobenzene	ug/L	50	46.8	94	60-140	
2,2-Dichloropropane	ug/L	50	45.4	91	60-140	
2-Chlorotoluene	ug/L	50	45.9	92	60-140	
4-Chlorotoluene	ug/L	50	44.9	90	60-140	
Benzene	ug/L	50	46.8	94	60-140	
Bromobenzene	ug/L	50	45.8	92	60-140	
Bromochloromethane	ug/L	50	47.6	95	60-140	
Bromodichloromethane	ug/L	50	41.6	83	60-140	
Bromoform	ug/L	50	42.2	84	60-140	
Bromomethane	ug/L	50	43.2	86	60-140	
Carbon tetrachloride	ug/L	50	41.1	82	60-140	
Chlorobenzene	ug/L	50	46.5	93	60-140	
Chloroethane	ug/L	50	36.8	74	60-140	
Chloroform	ug/L	50	44.3	89	60-140	
Chloromethane	ug/L	50	39.3	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.0	88	60-140	
cis-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Dibromochloromethane	ug/L	50	48.3	97	60-140	
Dibromomethane	ug/L	50	41.9	84	60-140	
Dichlorodifluoromethane	ug/L	50	38.6	77	60-140	
Diisopropyl ether	ug/L	50	45.2	90	60-140	
Ethylbenzene	ug/L	50	45.7	91	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.5	95	60-140	
Isopropylbenzene (Cumene)	ug/L	50	46.7	93	60-140	
m&p-Xylene	ug/L	100	90.2	90	60-140	
Methyl-tert-butyl ether	ug/L	50	44.9	90	60-140	
Methylene Chloride	ug/L	50	42.8	86	60-140	
n-Butylbenzene	ug/L	50	47.3	95	60-140	
n-Propylbenzene	ug/L	50	46.8	94	60-140	
Naphthalene	ug/L	50	50.6	101	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	46.6	93	60-140	
Styrene	ug/L	50	48.5	97	60-140	
tert-Butylbenzene	ug/L	50	39.0	78	60-140	
Tetrachloroethene	ug/L	50	45.8	92	60-140	
Toluene	ug/L	50	43.8	88	60-140	
trans-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
trans-1,3-Dichloropropene	ug/L	50	44.2	88	60-140	
Trichloroethene	ug/L	50	44.5	89	60-140	
Trichlorofluoromethane	ug/L	50	37.0	74	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090479 3090480

Parameter	Units	92508857002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<8.4	400	400	390	345	97	86	60-140	12	
1,1,1-Trichloroethane	ug/L	<5.6	400	400	408	358	102	89	60-140	13	
1,1,2,2-Tetrachloroethane	ug/L	<3.9	400	400	416	364	104	91	60-140	13	
1,1,2-Trichloroethane	ug/L	<4.6	400	400	402	349	100	87	60-140	14	
1,1-Dichloroethane	ug/L	<4.9	400	400	438	393	110	98	60-140	11	
1,1-Dichloroethene	ug/L	<4.4	400	400	406	362	101	90	60-140	11	
1,1-Dichloropropene	ug/L	<7.0	400	400	441	387	110	97	60-140	13	
1,2,3-Trichlorobenzene	ug/L	<15.6	400	400	346	338	86	84	60-140	2	
1,2,3-Trichloropropane	ug/L	<5.4	400	400	388	343	97	86	60-140	12	
1,2,4-Trichlorobenzene	ug/L	<8.7	400	400	349	331	87	83	60-140	5	
1,2,4-Trimethylbenzene	ug/L	710	400	400	1120	1120	101	102	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	<7.7	400	400	398	369	99	92	60-140	7	
1,2-Dibromoethane (EDB)	ug/L	290	400	400	705	678	104	97	60-140	4	
1,2-Dichlorobenzene	ug/L	<4.8	400	400	380	339	95	85	60-140	11	
1,2-Dichloroethane	ug/L	1020	400	400	1440	1510	104	121	60-140	5	
1,2-Dichloropropane	ug/L	17.4	400	400	458	406	110	97	60-140	12	
1,3,5-Trimethylbenzene	ug/L	373	400	400	775	751	101	94	60-140	3	
1,3-Dichlorobenzene	ug/L	<5.0	400	400	380	337	95	84	60-140	12	
1,3-Dichloropropane	ug/L	<6.8	400	400	436	383	109	96	60-140	13	
1,4-Dichlorobenzene	ug/L	<5.0	400	400	382	341	96	85	60-140	11	
2,2-Dichloropropane	ug/L	<5.6	400	400	361	326	90	82	60-140	10	
2-Chlorotoluene	ug/L	<4.1	400	400	413	364	103	91	60-140	13	
4-Chlorotoluene	ug/L	<4.1	400	400	388	338	97	85	60-140	14	
Benzene	ug/L	1740	400	400	2160	2330	104	147	60-140	8	M1
Bromobenzene	ug/L	<4.3	400	400	392	343	98	86	60-140	13	
Bromochloromethane	ug/L	<5.2	400	400	415	363	104	91	60-140	13	
Bromodichloromethane	ug/L	<3.7	400	400	365	325	91	81	60-140	12	
Bromoform	ug/L	<8.1	400	400	329	295	82	74	60-140	11	
Bromomethane	ug/L	<34.4	400	400	321	333	80	83	60-140	4	
Carbon tetrachloride	ug/L	<4.6	400	400	344	321	86	80	60-140	7	
Chlorobenzene	ug/L	<4.5	400	400	403	346	101	87	60-140	15	
Chloroethane	ug/L	<11.7	400	400	367	346	92	87	60-140	6	
Chloroform	ug/L	<7.1	400	400	395	369	99	92	60-140	7	
Chloromethane	ug/L	<8.3	400	400	361	354	90	88	60-140	2	
cis-1,2-Dichloroethene	ug/L	<4.1	400	400	396	362	99	90	60-140	9	
cis-1,3-Dichloropropene	ug/L	<7.1	400	400	401	361	100	90	60-140	11	
Dibromochloromethane	ug/L	<8.0	400	400	401	342	100	85	60-140	16	
Dibromomethane	ug/L	<6.2	400	400	359	327	90	82	60-140	9	
Dichlorodifluoromethane	ug/L	<5.7	400	400	358	327	90	82	60-140	9	
Diisopropyl ether	ug/L	2140	400	400	2720	2900	144	190	60-140	6	M1
Ethylbenzene	ug/L	177	400	400	586	533	102	89	60-140	9	
Hexachloro-1,3-butadiene	ug/L	<24.0	400	400	358	329	90	82	60-140	9	
Isopropylbenzene (Cumene)	ug/L	<4.8	400	400	416	367	104	92	60-140	12	
m&p-Xylene	ug/L	2350	800	800	3170	3190	102	105	60-140	1	
Methyl-tert-butyl ether	ug/L	295	400	400	698	686	101	98	60-140	2	
Methylene Chloride	ug/L	<30.0	400	400	403	361	101	90	60-140	11	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090479 3090480

Parameter	Units	92508857002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<7.1	400	400	421	380	105	95	60-140	10	
n-Propylbenzene	ug/L	<4.8	400	400	418	377	104	94	60-140	10	
Naphthalene	ug/L	433	400	400	840	879	102	112	60-140	5	
o-Xylene	ug/L	1910	400	400	2330	2390	106	120	60-140	2	
sec-Butylbenzene	ug/L	<4.9	400	400	410	364	103	91	60-140	12	
Styrene	ug/L	<5.1	400	400	413	371	103	93	60-140	11	
tert-Butylbenzene	ug/L	<5.0	400	400	343	304	86	76	60-140	12	
Tetrachloroethene	ug/L	<4.6	400	400	384	330	96	83	60-140	15	
Toluene	ug/L	2420	400	400	2820	2990	99	142	60-140	6	M1
trans-1,2-Dichloroethene	ug/L	<5.1	400	400	422	383	106	96	60-140	10	
trans-1,3-Dichloropropene	ug/L	<7.9	400	400	374	335	93	84	60-140	11	
Trichloroethene	ug/L	<4.6	400	400	393	344	98	86	60-140	13	
Trichlorofluoromethane	ug/L	<6.7	400	400	358	320	89	80	60-140	11	
Vinyl chloride	ug/L	<8.1	400	400	409	367	102	92	60-140	11	
1,2-Dichloroethane-d4 (S)	%						95	100	70-130		
4-Bromofluorobenzene (S)	%						99	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

QC Batch: 585040
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508886001

METHOD BLANK: 3092613 Matrix: Water
Associated Lab Samples: 92508886001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/07/20 23:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/07/20 23:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/07/20 23:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
1,3-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
2,2-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
2-Chlorotoluene	ug/L	ND	0.50	12/07/20 23:15	
4-Chlorotoluene	ug/L	ND	0.50	12/07/20 23:15	
Benzene	ug/L	ND	0.50	12/07/20 23:15	
Bromobenzene	ug/L	ND	0.50	12/07/20 23:15	
Bromochloromethane	ug/L	ND	0.50	12/07/20 23:15	
Bromodichloromethane	ug/L	ND	0.50	12/07/20 23:15	
Bromoform	ug/L	ND	0.50	12/07/20 23:15	
Bromomethane	ug/L	ND	5.0	12/07/20 23:15	
Carbon tetrachloride	ug/L	ND	0.50	12/07/20 23:15	
Chlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
Chloroethane	ug/L	ND	1.0	12/07/20 23:15	
Chloroform	ug/L	ND	0.50	12/07/20 23:15	
Chloromethane	ug/L	ND	1.0	12/07/20 23:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
Dibromochloromethane	ug/L	ND	0.50	12/07/20 23:15	
Dibromomethane	ug/L	ND	0.50	12/07/20 23:15	
Dichlorodifluoromethane	ug/L	ND	0.50	12/07/20 23:15	
Diisopropyl ether	ug/L	ND	0.50	12/07/20 23:15	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

METHOD BLANK: 3092613 Matrix: Water
Associated Lab Samples: 92508886001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/07/20 23:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/07/20 23:15	
m&p-Xylene	ug/L	ND	1.0	12/07/20 23:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/07/20 23:15	
Methylene Chloride	ug/L	ND	2.0	12/07/20 23:15	
n-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
n-Propylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Naphthalene	ug/L	ND	2.0	12/07/20 23:15	
o-Xylene	ug/L	ND	0.50	12/07/20 23:15	
sec-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Styrene	ug/L	ND	0.50	12/07/20 23:15	
tert-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Tetrachloroethene	ug/L	ND	0.50	12/07/20 23:15	
Toluene	ug/L	ND	0.50	12/07/20 23:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
Trichloroethene	ug/L	ND	0.50	12/07/20 23:15	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/20 23:15	
Vinyl chloride	ug/L	ND	1.0	12/07/20 23:15	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/07/20 23:15	
4-Bromofluorobenzene (S)	%	102	70-130	12/07/20 23:15	
Toluene-d8 (S)	%	101	70-130	12/07/20 23:15	

LABORATORY CONTROL SAMPLE: 3092614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	59.2	118	60-140	
1,1,1-Trichloroethane	ug/L	50	52.4	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,2-Trichloroethane	ug/L	50	49.2	98	60-140	
1,1-Dichloroethane	ug/L	50	49.7	99	60-140	
1,1-Dichloroethene	ug/L	50	49.5	99	60-140	
1,1-Dichloropropene	ug/L	50	51.9	104	60-140	
1,2,3-Trichlorobenzene	ug/L	50	51.4	103	60-140	
1,2,3-Trichloropropane	ug/L	50	51.1	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.0	112	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.7	111	60-140	
1,2-Dichlorobenzene	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane	ug/L	50	46.8	94	60-140	
1,2-Dichloropropane	ug/L	50	52.2	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.8	102	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

LABORATORY CONTROL SAMPLE: 3092614

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	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	56.3	113	60-140	
2-Chlorotoluene	ug/L	50	51.8	104	60-140	
4-Chlorotoluene	ug/L	50	49.9	100	60-140	
Benzene	ug/L	50	49.6	99	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	49.3	99	60-140	
Bromodichloromethane	ug/L	50	47.3	95	60-140	
Bromoform	ug/L	50	57.9	116	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	53.0	106	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	41.9	84	60-140	
Chloroform	ug/L	50	47.8	96	60-140	
Chloromethane	ug/L	50	42.2	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	60-140	
Dibromochloromethane	ug/L	50	59.0	118	60-140	
Dibromomethane	ug/L	50	48.8	98	60-140	
Dichlorodifluoromethane	ug/L	50	40.1	80	60-140	
Diisopropyl ether	ug/L	50	49.1	98	60-140	
Ethylbenzene	ug/L	50	50.1	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	53.4	107	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	49.2	98	60-140	
Methylene Chloride	ug/L	50	46.7	93	60-140	
n-Butylbenzene	ug/L	50	52.9	106	60-140	
n-Propylbenzene	ug/L	50	51.2	102	60-140	
Naphthalene	ug/L	50	51.3	103	60-140	
o-Xylene	ug/L	50	51.7	103	60-140	
sec-Butylbenzene	ug/L	50	50.8	102	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	43.7	87	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.0	110	60-140	
Trichloroethene	ug/L	50	48.6	97	60-140	
Trichlorofluoromethane	ug/L	50	44.9	90	60-140	
Vinyl chloride	ug/L	50	44.3	89	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092615 3092616

Parameter	Units	92509560004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	28.4	23.9	142	119	60-140	17	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	25.6	22.3	128	111	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	24.9	21.9	125	109	60-140	13	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	20.5	120	102	60-140	16	
1,1-Dichloroethane	ug/L	ND	20	20	25.2	21.6	126	108	60-140	16	
1,1-Dichloroethene	ug/L	ND	20	20	25.2	21.4	126	107	60-140	16	
1,1-Dichloropropene	ug/L	ND	20	20	25.1	21.8	126	109	60-140	14	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.5	20.8	118	104	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	20	20	25.7	21.6	129	108	60-140	18	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.5	20.6	112	103	60-140	9	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.1	20.7	110	103	60-140	6	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	27.6	23.6	138	118	60-140	16	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	27.0	23.1	135	116	60-140	15	
1,2-Dichlorobenzene	ug/L	ND	20	20	23.0	20.9	115	105	60-140	9	
1,2-Dichloroethane	ug/L	ND	20	20	22.3	19.7	112	98	60-140	13	
1,2-Dichloropropane	ug/L	ND	20	20	25.7	21.9	128	109	60-140	16	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	21.1	116	106	60-140	10	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.3	21.1	117	105	60-140	10	
1,3-Dichloropropane	ug/L	ND	20	20	27.3	23.8	137	119	60-140	14	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.6	20.1	113	101	60-140	12	
2,2-Dichloropropane	ug/L	ND	20	20	29.0	23.9	145	120	60-140	19	M1
2-Chlorotoluene	ug/L	ND	20	20	23.8	21.7	119	108	60-140	9	
4-Chlorotoluene	ug/L	ND	20	20	23.1	20.9	115	105	60-140	10	
Benzene	ug/L	ND	20	20	25.1	21.7	125	108	60-140	15	
Bromobenzene	ug/L	ND	20	20	23.1	21.2	115	106	60-140	8	
Bromochloromethane	ug/L	ND	20	20	23.5	21.3	118	106	60-140	10	
Bromodichloromethane	ug/L	ND	20	20	23.5	20.2	118	101	60-140	15	
Bromoform	ug/L	ND	20	20	26.3	22.9	131	114	60-140	14	
Bromomethane	ug/L	ND	20	20	23.3	19.3	116	96	60-140	19	
Carbon tetrachloride	ug/L	ND	20	20	27.0	23.5	135	118	60-140	14	
Chlorobenzene	ug/L	ND	20	20	24.4	20.9	122	105	60-140	15	
Chloroethane	ug/L	ND	20	20	23.6	20.9	118	105	60-140	12	
Chloroform	ug/L	2.9	20	20	26.8	23.9	119	105	60-140	12	
Chloromethane	ug/L	ND	20	20	19.7	17.2	99	86	60-140	14	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.9	20.7	119	104	60-140	14	
cis-1,3-Dichloropropene	ug/L	ND	20	20	26.2	22.5	131	112	60-140	15	
Dibromochloromethane	ug/L	ND	20	20	28.0	23.1	140	116	60-140	19	
Dibromomethane	ug/L	ND	20	20	23.9	20.5	120	102	60-140	16	
Dichlorodifluoromethane	ug/L	ND	20	20	16.7	14.4	83	72	60-140	15	
Diisopropyl ether	ug/L	ND	20	20	22.8	19.7	114	99	60-140	14	
Ethylbenzene	ug/L	ND	20	20	24.3	21.3	121	107	60-140	13	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	26.6	24.6	133	123	60-140	8	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.3	21.4	122	107	60-140	13	
m&p-Xylene	ug/L	ND	40	40	49.4	42.9	124	107	60-140	14	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.8	20.0	114	100	60-140	13	
Methylene Chloride	ug/L	ND	20	20	22.8	20.0	114	100	60-140	13	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092615 3092616

Parameter	Units	92509560004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	23.8	22.2	119	111	60-140	7	
n-Propylbenzene	ug/L	ND	20	20	23.3	21.3	117	107	60-140	9	
Naphthalene	ug/L	ND	20	20	22.9	21.0	115	105	60-140	9	
o-Xylene	ug/L	ND	20	20	23.9	21.9	120	109	60-140	9	
sec-Butylbenzene	ug/L	ND	20	20	23.8	21.9	119	109	60-140	8	
Styrene	ug/L	ND	20	20	24.0	21.1	120	105	60-140	13	
tert-Butylbenzene	ug/L	ND	20	20	20.7	18.5	104	92	60-140	12	
Tetrachloroethene	ug/L	ND	20	20	22.0	20.3	110	102	60-140	8	
Toluene	ug/L	ND	20	20	23.0	20.1	115	100	60-140	13	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.8	21.7	124	108	60-140	13	
trans-1,3-Dichloropropene	ug/L	ND	20	20	26.0	22.1	130	111	60-140	16	
Trichloroethene	ug/L	ND	20	20	23.7	21.2	118	106	60-140	11	
Trichlorofluoromethane	ug/L	ND	20	20	22.3	19.8	111	99	60-140	12	
Vinyl chloride	ug/L	ND	20	20	20.7	18.1	104	90	60-140	14	
1,2-Dichloroethane-d4 (S)	%						101	100	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

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

BC	The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (12/1)
Pace Project No.: 92508886

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508886001	**MW-8**	MADEPV	1587240	MADEP VPH	1587240
92508886001	**MW-8**	MADEPV	1588008	MADEP VPH	1588008
92508886002	**MW-44**	MADEPV	1587240	MADEP VPH	1587240
92508886002	**MW-44**	MADEPV	1588008	MADEP VPH	1588008
92508886003	**MW-60**	MADEPV	1587240	MADEP VPH	1587240
92508886003	**MW-60**	MADEPV	1588008	MADEP VPH	1588008
92508886001	**MW-8**	EPA 3010A	584980	EPA 6010D	585026
92508886002	**MW-44**	EPA 3010A	584980	EPA 6010D	585026
92508886003	**MW-60**	EPA 3010A	584980	EPA 6010D	585026
92508886001	**MW-8**	SM 6200B	585040		
92508886002	**MW-44**	SM 6200B	584648		
92508886003	**MW-60**	SM 6200B	584648		
92508886004	**Trip Blank**	SM 6200B	584648		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 92508886

92508886

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 12/2/20 LDH

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: 2.4 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 2.3

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

USDA Regulated Soil (☒ N/A, water sample)

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

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

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

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

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

Project # **WO# : 92508886**

PM: NMG Due Date: 12/08/20

CLIENT: 92-AECOM CHA

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)	BP6S-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)	VGK (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										1											
2						1										1											
3						1										1											
4																2											
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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	AECOM	Report To:	Andrew Wreschnig	Attention:	
Address:	6000 Fairview Road	Copy To:		Company Name:	
Suite 200, Charlotte, NC 28226				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	(704)522-0330 Fax	Project Name:	Colonial Pipeline	Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	12518-3

Regulatory Agency
State / Location
NC

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	92508886
1	MW-8	WT	G			12/1	1945		8				X						X	X	X			001
2	MW-44	WT	G			12/1	1400		8				X						X	X	X			002
3	MW-60	WT	G			12/1	1430		8				X						X	X	X			003
4	Trip Blank	WT	G				Lab	Provided														X		004
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Emily R. Love/AECOM	12/1/20	1703	CDH PACE HVL	12/1/20	1703	2.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emily Love

SIGNATURE of SAMPLER: Emily R. Love DATE Signed: 12/1/2020

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 09, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on December 02, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92509250001	**MW-43**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509250002	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

Sample: MW-43 **Lab ID: 92509250001** Collected: 12/02/20 12:10 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/08/20 03:45	12/08/20 03:45		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/08/20 03:45	12/08/20 03:45		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/08/20 03:45	12/08/20 03:45	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/08/20 03:45	12/08/20 03:45	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.5	%	70.0-130	1	12/08/20 03:45	12/08/20 03:45	615-59-8FID	
2,5-Dibromotoluene (PID)	79.9	%	70.0-130	1	12/08/20 03:45	12/08/20 03:45	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	12/08/20 01:57	12/09/20 16:07	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 14:42	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 14:42	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 14:42	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 14:42	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 14:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 14:42	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 14:42	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 14:42	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 14:42	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 14:42	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 14:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 14:42	75-00-3	
Chloroform	**2.1**	ug/L	0.50	1		12/07/20 14:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 14:42	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 14:42	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 14:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 14:42	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 14:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 14:42	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 14:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 14:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 14:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 14:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 14:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 14:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 14:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 14:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 14:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 14:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 14:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 14:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 14:42	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

Sample: MW-43 **Lab ID: 92509250001** Collected: 12/02/20 12:10 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 14:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 14:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 14:42	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 14:42	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 14:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 14:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 14:42	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 14:42	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 14:42	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 14:42	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 14:42	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 14:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 14:42	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 14:42	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 14:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 14:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 14:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 14:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 14:42	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 14:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 14:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 14:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 14:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 14:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 14:42	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 14:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 14:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/07/20 14:42	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		12/07/20 14:42	460-00-4	
Toluene-d8 (S)	105	%	70-130	1		12/07/20 14:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

Sample: Trip Blank **Lab ID: 92509250002** Collected: 12/02/20 00:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 13:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 13:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 13:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 13:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 13:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 13:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 13:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 13:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 13:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 13:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 13:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 13:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/07/20 13:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 13:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 13:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 13:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 13:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 13:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 13:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 13:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 13:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 13:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 13:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 13:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 13:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 13:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 13:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 13:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 13:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 13:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 13:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 13:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 13:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 13:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 13:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 13:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 13:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 13:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 13:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 13:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 13:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 13:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 13:31	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 13:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 13:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 13:31	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

Sample: Trip Blank **Lab ID: 92509250002** Collected: 12/02/20 00:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 13:31	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 13:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 13:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 13:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 13:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 13:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 13:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 13:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 13:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 13:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 13:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 13:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 13:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 13:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		12/07/20 13:31	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		12/07/20 13:31	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/07/20 13:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

QC Batch: 1587907
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92509250001

METHOD BLANK: R3601495-3 Matrix: Water
Associated Lab Samples: 92509250001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/07/20 16:43	
Aliphatic (C09-C12)	ug/L	ND	100	12/07/20 16:43	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/07/20 16:43	
Total VPH	ug/L	ND	100	12/07/20 16:43	
2,5-Dibromotoluene (FID)	%	81	70.0-130	12/07/20 16:43	
2,5-Dibromotoluene (PID)	%	73.2	70.0-130	12/07/20 16:43	

LABORATORY CONTROL SAMPLE & LCSD: R3601495-1 R3601495-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1120	95.8	93.3	70.0-130	2.64	25	
Aliphatic (C09-C12)	ug/L	1400	1280	1250	91.4	89.3	70.0-130	2.37	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	169	168	84.5	84.0	70.0-130	0.593	25	
Total VPH	ug/L	2800	2600	2540	92.9	90.7	70.0-130	2.33	25	
2,5-Dibromotoluene (FID)	%				87.7	84.7	70.0-130			
2,5-Dibromotoluene (PID)	%				81.9	78.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

QC Batch: 585194
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92509250001

METHOD BLANK: 3093302 Matrix: Water
Associated Lab Samples: 92509250001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/09/20 15:19	

LABORATORY CONTROL SAMPLE: 3093303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	245	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3093304 3093305

Parameter	Units	92508272001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	257	253	103	101	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

QC Batch: 584686
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92509250001, 92509250002

METHOD BLANK: 3090783 Matrix: Water
Associated Lab Samples: 92509250001, 92509250002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/07/20 12:38	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/07/20 12:38	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/07/20 12:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
1,3-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
2,2-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
2-Chlorotoluene	ug/L	ND	0.50	12/07/20 12:38	
4-Chlorotoluene	ug/L	ND	0.50	12/07/20 12:38	
Benzene	ug/L	ND	0.50	12/07/20 12:38	
Bromobenzene	ug/L	ND	0.50	12/07/20 12:38	
Bromochloromethane	ug/L	ND	0.50	12/07/20 12:38	
Bromodichloromethane	ug/L	ND	0.50	12/07/20 12:38	
Bromoform	ug/L	ND	0.50	12/07/20 12:38	
Bromomethane	ug/L	ND	5.0	12/07/20 12:38	
Carbon tetrachloride	ug/L	ND	0.50	12/07/20 12:38	
Chlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
Chloroethane	ug/L	ND	1.0	12/07/20 12:38	
Chloroform	ug/L	ND	0.50	12/07/20 12:38	
Chloromethane	ug/L	ND	1.0	12/07/20 12:38	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
Dibromochloromethane	ug/L	ND	0.50	12/07/20 12:38	
Dibromomethane	ug/L	ND	0.50	12/07/20 12:38	
Dichlorodifluoromethane	ug/L	ND	0.50	12/07/20 12:38	
Diisopropyl ether	ug/L	ND	0.50	12/07/20 12:38	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

METHOD BLANK: 3090783 Matrix: Water
Associated Lab Samples: 92509250001, 92509250002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/07/20 12:38	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/07/20 12:38	
m&p-Xylene	ug/L	ND	1.0	12/07/20 12:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/07/20 12:38	
Methylene Chloride	ug/L	ND	2.0	12/07/20 12:38	
n-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
n-Propylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Naphthalene	ug/L	ND	2.0	12/07/20 12:38	
o-Xylene	ug/L	ND	0.50	12/07/20 12:38	
sec-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Styrene	ug/L	ND	0.50	12/07/20 12:38	
tert-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Tetrachloroethene	ug/L	ND	0.50	12/07/20 12:38	
Toluene	ug/L	ND	0.50	12/07/20 12:38	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
Trichloroethene	ug/L	ND	0.50	12/07/20 12:38	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/20 12:38	
Vinyl chloride	ug/L	ND	1.0	12/07/20 12:38	
1,2-Dichloroethane-d4 (S)	%	106	70-130	12/07/20 12:38	
4-Bromofluorobenzene (S)	%	104	70-130	12/07/20 12:38	
Toluene-d8 (S)	%	105	70-130	12/07/20 12:38	

LABORATORY CONTROL SAMPLE: 3090784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.3	115	60-140	
1,1,1-Trichloroethane	ug/L	50	60.1	120	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	100	60-140	
1,1,2-Trichloroethane	ug/L	50	53.2	106	60-140	
1,1-Dichloroethane	ug/L	50	56.1	112	60-140	
1,1-Dichloroethene	ug/L	50	57.2	114	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.8	98	60-140	
1,2,3-Trichloropropane	ug/L	50	49.1	98	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.8	94	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.0	94	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.3	115	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	60-140	
1,2-Dichlorobenzene	ug/L	50	48.9	98	60-140	
1,2-Dichloroethane	ug/L	50	52.1	104	60-140	
1,2-Dichloropropane	ug/L	50	55.4	111	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.3	99	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

LABORATORY CONTROL SAMPLE: 3090784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.4	97	60-140	
1,3-Dichloropropane	ug/L	50	51.0	102	60-140	
1,4-Dichlorobenzene	ug/L	50	47.5	95	60-140	
2,2-Dichloropropane	ug/L	50	65.6	131	60-140	
2-Chlorotoluene	ug/L	50	49.4	99	60-140	
4-Chlorotoluene	ug/L	50	48.1	96	60-140	
Benzene	ug/L	50	53.3	107	60-140	
Bromobenzene	ug/L	50	49.1	98	60-140	
Bromochloromethane	ug/L	50	53.9	108	60-140	
Bromodichloromethane	ug/L	50	52.0	104	60-140	
Bromoform	ug/L	50	59.3	119	60-140	
Bromomethane	ug/L	50	48.9	98	60-140	
Carbon tetrachloride	ug/L	50	58.2	116	60-140	
Chlorobenzene	ug/L	50	48.1	96	60-140	
Chloroethane	ug/L	50	46.6	93	60-140	
Chloroform	ug/L	50	55.2	110	60-140	
Chloromethane	ug/L	50	49.6	99	60-140	
cis-1,2-Dichloroethene	ug/L	50	54.2	108	60-140	
cis-1,3-Dichloropropene	ug/L	50	59.0	118	60-140	
Dibromochloromethane	ug/L	50	57.8	116	60-140	
Dibromomethane	ug/L	50	50.9	102	60-140	
Dichlorodifluoromethane	ug/L	50	46.5	93	60-140	
Diisopropyl ether	ug/L	50	55.7	111	60-140	
Ethylbenzene	ug/L	50	47.3	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.5	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.8	96	60-140	
m&p-Xylene	ug/L	100	95.6	96	60-140	
Methyl-tert-butyl ether	ug/L	50	55.4	111	60-140	
Methylene Chloride	ug/L	50	51.5	103	60-140	
n-Butylbenzene	ug/L	50	48.8	98	60-140	
n-Propylbenzene	ug/L	50	48.9	98	60-140	
Naphthalene	ug/L	50	48.4	97	60-140	
o-Xylene	ug/L	50	48.4	97	60-140	
sec-Butylbenzene	ug/L	50	48.3	97	60-140	
Styrene	ug/L	50	47.7	95	60-140	
tert-Butylbenzene	ug/L	50	42.1	84	60-140	
Tetrachloroethene	ug/L	50	46.8	94	60-140	
Toluene	ug/L	50	52.2	104	60-140	
trans-1,2-Dichloroethene	ug/L	50	56.2	112	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	60-140	
Trichloroethene	ug/L	50	52.3	105	60-140	
Trichlorofluoromethane	ug/L	50	50.3	101	60-140	
Vinyl chloride	ug/L	50	50.3	101	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090785 3090786

Parameter	Units	92509253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	26.8	30.1	134	150	60-140	12	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	26.6	27.3	133	136	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	24.4	26.7	122	133	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.6	25.7	118	129	60-140	9	
1,1-Dichloroethane	ug/L	ND	20	20	25.6	26.0	128	130	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	26.0	26.5	130	132	60-140	2	
1,1-Dichloropropene	ug/L	ND	20	20	26.3	26.8	132	134	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	24.3	26.1	122	131	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	20	20	24.5	27.6	123	138	60-140	12	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	24.4	26.2	122	131	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.0	24.6	115	123	60-140	7	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	27.4	27.1	137	136	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	26.4	28.7	132	144	60-140	9	M1
1,2-Dichlorobenzene	ug/L	ND	20	20	23.6	26.1	118	131	60-140	10	
1,2-Dichloroethane	ug/L	ND	20	20	22.9	23.7	115	118	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	25.2	27.3	126	136	60-140	8	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	24.1	25.4	120	127	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.5	25.5	118	127	60-140	8	
1,3-Dichloropropane	ug/L	ND	20	20	26.6	29.2	133	146	60-140	9	M1
1,4-Dichlorobenzene	ug/L	ND	20	20	22.8	25.0	114	125	60-140	9	
2,2-Dichloropropane	ug/L	ND	20	20	29.6	29.9	148	149	60-140	1	M1
2-Chlorotoluene	ug/L	ND	20	20	24.0	25.7	120	129	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	24.0	25.7	120	128	60-140	7	
Benzene	ug/L	ND	20	20	24.7	26.3	123	132	60-140	7	
Bromobenzene	ug/L	ND	20	20	23.5	25.7	117	129	60-140	9	
Bromochloromethane	ug/L	ND	20	20	24.2	24.6	121	123	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	22.7	24.8	114	124	60-140	9	
Bromoform	ug/L	ND	20	20	26.2	28.9	131	144	60-140	10	M1
Bromomethane	ug/L	ND	20	20	24.0	23.9	120	119	60-140	0	
Carbon tetrachloride	ug/L	ND	20	20	27.5	28.6	137	143	60-140	4	M1
Chlorobenzene	ug/L	ND	20	20	23.7	26.3	118	132	60-140	11	
Chloroethane	ug/L	ND	20	20	24.8	23.5	124	117	60-140	5	
Chloroform	ug/L	ND	20	20	24.8	24.4	124	122	60-140	2	
Chloromethane	ug/L	ND	20	20	21.0	20.9	105	105	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.4	25.4	122	127	60-140	4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	26.2	27.3	131	136	60-140	4	
Dibromochloromethane	ug/L	ND	20	20	27.2	30.5	136	153	60-140	11	M1
Dibromomethane	ug/L	ND	20	20	22.4	24.9	112	125	60-140	11	
Dichlorodifluoromethane	ug/L	ND	20	20	18.2	18.0	91	90	60-140	1	
Diisopropyl ether	ug/L	ND	20	20	23.4	24.3	117	122	60-140	4	
Ethylbenzene	ug/L	ND	20	20	23.9	26.5	120	133	60-140	10	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	28.8	30.7	144	154	60-140	6	M1
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.3	26.5	121	132	60-140	9	
m&p-Xylene	ug/L	ND	40	40	48.7	53.4	122	133	60-140	9	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.5	24.4	118	122	60-140	4	
Methylene Chloride	ug/L	ND	20	20	23.6	23.9	118	120	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090785 3090786

Parameter	Units	92509253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	26.6	27.5	133	138	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	24.6	25.5	123	127	60-140	3	
Naphthalene	ug/L	ND	20	20	23.0	25.2	115	126	60-140	9	
o-Xylene	ug/L	ND	20	20	24.5	26.6	122	133	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	25.6	27.0	128	135	60-140	6	
Styrene	ug/L	ND	20	20	24.1	26.2	120	131	60-140	9	
tert-Butylbenzene	ug/L	ND	20	20	21.4	22.8	107	114	60-140	6	
Tetrachloroethene	ug/L	ND	20	20	23.0	24.9	115	124	60-140	8	
Toluene	ug/L	ND	20	20	22.8	24.6	114	123	60-140	8	
trans-1,2-Dichloroethene	ug/L	ND	20	20	26.1	26.1	130	130	60-140	0	
trans-1,3-Dichloropropene	ug/L	ND	20	20	25.8	27.9	129	140	60-140	8	
Trichloroethene	ug/L	ND	20	20	24.8	26.1	124	130	60-140	5	
Trichlorofluoromethane	ug/L	ND	20	20	23.1	23.5	116	117	60-140	1	
Vinyl chloride	ug/L	ND	20	20	22.1	21.9	111	110	60-140	1	
1,2-Dichloroethane-d4 (S)	%						102	103	70-130		
4-Bromofluorobenzene (S)	%						101	101	70-130		
Toluene-d8 (S)	%						98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509250

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92509250001	**MW-43**	MADEPV	1587907	MADEP VPH	1587907
92509250001	**MW-43**	EPA 3010A	585194	EPA 6010D	585203
92509250001	**MW-43**	SM 6200B	584686		
92509250002	**Trip Blank**	SM 6200B	584686		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 92509250

92509250

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☒ Client

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: 12/3/20 LDH

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: 0.4 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 0.3

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

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

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

Project # **WO# : 92509250**

PM: NMG Due Date: 12/09/20

CLIENT: 92-AECOM CHA

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(DGBA)-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)	VOAM (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										1													
2																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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	AECOM	Report To:	Andrew Wreschnig	Attention:	
Address:	6000 Fairview Road	Copy To:		Company Name:	
	Suite 200, Charlotte, NC 28226			Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	(704)522-0330 Fax	Project Name:	Colonial Pipeline	Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	12518-3

Regulatory Agency

State / Location: NC

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	92509250
1	MW-43	W	G	12/2	1210				8			X	X						X	X	X			001
2	Trip Blank	W				Lab Provided																X		002
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Emily R. Love/AECOM	12/2/20	1700	MDG Pace HCL	12-2-20	1700	0.3	Y	N	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Emily Love					
SIGNATURE of SAMPLER:	Emily R. Love	DATE Signed: 12/2/2020				

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 11, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on December 02, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92509251001	**MW-13**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509251002	**MW-14**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509251003	**MW-45**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509251004	**MW-46**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509251005	**MW-49**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509251006	**MW-50**	MADEP VPH	ACG, ADM	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509251007	**MW-51**	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509251008	**FB-1-20201202**	MADEP VPH	ACG	6	PAN
		SM 6200B	SAS	63	PASI-C
92509251009	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-13 **Lab ID: 92509251001** Collected: 12/02/20 15:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/07/20 22:46	12/07/20 22:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/07/20 22:46	12/07/20 22:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/07/20 22:46	12/07/20 22:46	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/07/20 22:46	12/07/20 22:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.8	%	70.0-130	1	12/07/20 22:46	12/07/20 22:46	615-59-8FID	
2,5-Dibromotoluene (PID)	81.2	%	70.0-130	1	12/07/20 22:46	12/07/20 22:46	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	12/08/20 01:57	12/09/20 16:11	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 15:00	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 15:00	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 15:00	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 15:00	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 15:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 15:00	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:00	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:00	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:00	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 15:00	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 15:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 15:00	75-00-3	
Chloroform	**6.2**	ug/L	0.50	1		12/07/20 15:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 15:00	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 15:00	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 15:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 15:00	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 15:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 15:00	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 15:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 15:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 15:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 15:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:00	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-13 **Lab ID: 92509251001** Collected: 12/02/20 15:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:00	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 15:00	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 15:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 15:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 15:00	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 15:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 15:00	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 15:00	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 15:00	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 15:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 15:00	79-34-5	
Tetrachloroethene	**1.1**	ug/L	0.50	1		12/07/20 15:00	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 15:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 15:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 15:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 15:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 15:00	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 15:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 15:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 15:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 15:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 15:00	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 15:00	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 15:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 15:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/07/20 15:00	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/07/20 15:00	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/07/20 15:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-14 **Lab ID: 92509251002** Collected: 12/02/20 12:45 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/07/20 23:19	12/07/20 23:19		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/07/20 23:19	12/07/20 23:19		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/07/20 23:19	12/07/20 23:19	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/07/20 23:19	12/07/20 23:19	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.2	%	70.0-130	1	12/07/20 23:19	12/07/20 23:19	615-59-8FID	
2,5-Dibromotoluene (PID)	81.4	%	70.0-130	1	12/07/20 23:19	12/07/20 23:19	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**18.7**	ug/L	5.0	1	12/08/20 01:57	12/09/20 16:20	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 15:17	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 15:17	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 15:17	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 15:17	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 15:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 15:17	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:17	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:17	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:17	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 15:17	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 15:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 15:17	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/07/20 15:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 15:17	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 15:17	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 15:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 15:17	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 15:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 15:17	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 15:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 15:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 15:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 15:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:17	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-14 **Lab ID: 92509251002** Collected: 12/02/20 12:45 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:17	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 15:17	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 15:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 15:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 15:17	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 15:17	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 15:17	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 15:17	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 15:17	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 15:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 15:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 15:17	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 15:17	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 15:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 15:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 15:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 15:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 15:17	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 15:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 15:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 15:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 15:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 15:17	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 15:17	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 15:17	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 15:17	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		12/07/20 15:17	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/07/20 15:17	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/07/20 15:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-45 **Lab ID: 92509251003** Collected: 12/02/20 10:15 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/07/20 23:53	12/07/20 23:53		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/07/20 23:53	12/07/20 23:53		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/07/20 23:53	12/07/20 23:53	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/07/20 23:53	12/07/20 23:53	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.0	%	70.0-130	1	12/07/20 23:53	12/07/20 23:53	615-59-8FID	
2,5-Dibromotoluene (PID)	82.2	%	70.0-130	1	12/07/20 23:53	12/07/20 23:53	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**12.6**	ug/L	5.0	1	12/08/20 01:57	12/09/20 16:23	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 15:35	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 15:35	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 15:35	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 15:35	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 15:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 15:35	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:35	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:35	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 15:35	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 15:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 15:35	75-00-3	
Chloroform	**5.9**	ug/L	0.50	1		12/07/20 15:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 15:35	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 15:35	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 15:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 15:35	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 15:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 15:35	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 15:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 15:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 15:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:35	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-45 **Lab ID: 92509251003** Collected: 12/02/20 10:15 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:35	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 15:35	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 15:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 15:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 15:35	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 15:35	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 15:35	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 15:35	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 15:35	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 15:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 15:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 15:35	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 15:35	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 15:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 15:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 15:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 15:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 15:35	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 15:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 15:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 15:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 15:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 15:35	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 15:35	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 15:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 15:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/07/20 15:35	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/07/20 15:35	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/07/20 15:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-46 **Lab ID: 92509251004** Collected: 12/02/20 08:15 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/08/20 00:26	12/08/20 00:26		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/08/20 00:26	12/08/20 00:26		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/08/20 00:26	12/08/20 00:26	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/08/20 00:26	12/08/20 00:26	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.3	%	70.0-130	1	12/08/20 00:26	12/08/20 00:26	615-59-8FID	
2,5-Dibromotoluene (PID)	81.2	%	70.0-130	1	12/08/20 00:26	12/08/20 00:26	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	12/08/20 01:57	12/09/20 16:27	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 15:53	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 15:53	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 15:53	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 15:53	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 15:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 15:53	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:53	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:53	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 15:53	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 15:53	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 15:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 15:53	75-00-3	
Chloroform	**10.9**	ug/L	0.50	1		12/07/20 15:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 15:53	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 15:53	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 15:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 15:53	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 15:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 15:53	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 15:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 15:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 15:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 15:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 15:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 15:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 15:53	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-46 **Lab ID: 92509251004** Collected: 12/02/20 08:15 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 15:53	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 15:53	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 15:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 15:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 15:53	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 15:53	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 15:53	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 15:53	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 15:53	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 15:53	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 15:53	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 15:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 15:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 15:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 15:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 15:53	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 15:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 15:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 15:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 15:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 15:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 15:53	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 15:53	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 15:53	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		12/07/20 15:53	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/07/20 15:53	460-00-4	
Toluene-d8 (S)	105	%	70-130	1		12/07/20 15:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-49 **Lab ID: 92509251005** Collected: 12/02/20 11:05 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/08/20 00:59	12/08/20 00:59		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/08/20 00:59	12/08/20 00:59		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/08/20 00:59	12/08/20 00:59	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/08/20 00:59	12/08/20 00:59	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.3	%	70.0-130	1	12/08/20 00:59	12/08/20 00:59	615-59-8FID	
2,5-Dibromotoluene (PID)	81.7	%	70.0-130	1	12/08/20 00:59	12/08/20 00:59	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**16.2**	ug/L	5.0	1	12/08/20 01:57	12/09/20 16:30	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 16:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 16:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 16:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 16:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 16:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 16:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 16:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 16:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 16:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 16:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 16:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 16:10	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/07/20 16:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 16:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 16:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 16:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 16:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 16:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 16:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 16:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 16:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 16:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 16:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 16:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 16:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 16:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 16:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 16:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 16:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 16:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 16:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 16:10	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-49 **Lab ID: 92509251005** Collected: 12/02/20 11:05 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 16:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 16:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 16:10	10061-02-6	
Diisopropyl ether	**3.4**	ug/L	0.50	1		12/07/20 16:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 16:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 16:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 16:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 16:10	75-09-2	
Methyl-tert-butyl ether	**1.4**	ug/L	0.50	1		12/07/20 16:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 16:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 16:10	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 16:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 16:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 16:10	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 16:10	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 16:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 16:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 16:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 16:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 16:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 16:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 16:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 16:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 16:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 16:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 16:10	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 16:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 16:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		12/07/20 16:10	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		12/07/20 16:10	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/07/20 16:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-50 **Lab ID: 92509251006** Collected: 12/02/20 13:30 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**18700**	ug/L	1000	10	12/11/20 01:05	12/11/20 01:05		
Aliphatic (C09-C12)	**5620**	ug/L	100	1	12/10/20 05:54	12/10/20 05:54		
Aromatic (C09-C10),Unadjusted	**934**	ug/L	100	1	12/10/20 05:54	12/10/20 05:54	TPHC9C10A	
Total VPH	**6550**	ug/L	100	1	12/10/20 05:54	12/10/20 05:54	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	103	%	70.0-130	1	12/10/20 05:54	12/10/20 05:54	615-59-8FID	
2,5-Dibromotoluene (FID)	94.1	%	70.0-130	10	12/11/20 01:05	12/11/20 01:05	615-59-8FID	
2,5-Dibromotoluene (PID)	99.9	%	70.0-130	1	12/10/20 05:54	12/10/20 05:54	615-59-8PID	
2,5-Dibromotoluene (PID)	95.3	%	70.0-130	10	12/11/20 01:05	12/11/20 01:05	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	12/08/20 01:57	12/09/20 16:33	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**3730**	ug/L	10.0	20		12/08/20 20:42	71-43-2	
Bromobenzene	ND	ug/L	10.0	20		12/08/20 20:42	108-86-1	
Bromochloromethane	ND	ug/L	10.0	20		12/08/20 20:42	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	20		12/08/20 20:42	75-27-4	
Bromoform	ND	ug/L	10.0	20		12/08/20 20:42	75-25-2	
Bromomethane	ND	ug/L	100	20		12/08/20 20:42	74-83-9	
n-Butylbenzene	ND	ug/L	10.0	20		12/08/20 20:42	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	20		12/08/20 20:42	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	20		12/08/20 20:42	98-06-6	
Carbon tetrachloride	ND	ug/L	10.0	20		12/08/20 20:42	56-23-5	
Chlorobenzene	ND	ug/L	10.0	20		12/08/20 20:42	108-90-7	
Chloroethane	ND	ug/L	20.0	20		12/08/20 20:42	75-00-3	
Chloroform	ND	ug/L	10.0	20		12/08/20 20:42	67-66-3	
Chloromethane	ND	ug/L	20.0	20		12/08/20 20:42	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	20		12/08/20 20:42	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	20		12/08/20 20:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	20		12/08/20 20:42	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	20		12/08/20 20:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	20		12/08/20 20:42	106-93-4	
Dibromomethane	ND	ug/L	10.0	20		12/08/20 20:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	20		12/08/20 20:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	20		12/08/20 20:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	20		12/08/20 20:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	20		12/08/20 20:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	20		12/08/20 20:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	20		12/08/20 20:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	20		12/08/20 20:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	20		12/08/20 20:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	20		12/08/20 20:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	20		12/08/20 20:42	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-50 **Lab ID: 92509251006** Collected: 12/02/20 13:30 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	10.0	20		12/08/20 20:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	20		12/08/20 20:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	20		12/08/20 20:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	20		12/08/20 20:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	20		12/08/20 20:42	10061-02-6	
Diisopropyl ether	**482**	ug/L	10.0	20		12/08/20 20:42	108-20-3	
Ethylbenzene	**406**	ug/L	10.0	20		12/08/20 20:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	40.0	20		12/08/20 20:42	87-68-3	
Isopropylbenzene (Cumene)	**10.3**	ug/L	10.0	20		12/08/20 20:42	98-82-8	
Methylene Chloride	ND	ug/L	40.0	20		12/08/20 20:42	75-09-2	
Methyl-tert-butyl ether	**287**	ug/L	10.0	20		12/08/20 20:42	1634-04-4	
Naphthalene	**68.3**	ug/L	40.0	20		12/08/20 20:42	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	20		12/08/20 20:42	103-65-1	
Styrene	ND	ug/L	10.0	20		12/08/20 20:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	20		12/08/20 20:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	20		12/08/20 20:42	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	20		12/08/20 20:42	127-18-4	
Toluene	**3760**	ug/L	10.0	20		12/08/20 20:42	108-88-3	M1
1,2,3-Trichlorobenzene	ND	ug/L	40.0	20		12/08/20 20:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	40.0	20		12/08/20 20:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	20		12/08/20 20:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	20		12/08/20 20:42	79-00-5	
Trichloroethene	ND	ug/L	10.0	20		12/08/20 20:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		12/08/20 20:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	20		12/08/20 20:42	96-18-4	
1,2,4-Trimethylbenzene	**270**	ug/L	10.0	20		12/08/20 20:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	20		12/08/20 20:42	108-67-8	
Vinyl chloride	ND	ug/L	20.0	20		12/08/20 20:42	75-01-4	
m&p-Xylene	**1950**	ug/L	20.0	20		12/08/20 20:42	179601-23-1	
o-Xylene	**962**	ug/L	10.0	20		12/08/20 20:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	20		12/08/20 20:42	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	20		12/08/20 20:42	460-00-4	
Toluene-d8 (S)	98	%	70-130	20		12/08/20 20:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-51 **Lab ID: 92509251007** Collected: 12/02/20 09:20 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/10/20 06:28	12/10/20 06:28		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/10/20 06:28	12/10/20 06:28		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/10/20 06:28	12/10/20 06:28	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/10/20 06:28	12/10/20 06:28	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.3	%	70.0-130	1	12/10/20 06:28	12/10/20 06:28	615-59-8FID	
2,5-Dibromotoluene (PID)	93.7	%	70.0-130	1	12/10/20 06:28	12/10/20 06:28	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	12/08/20 01:57	12/09/20 16:36	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 17:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 17:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 17:10	74-97-5	
Bromodichloromethane	**0.55**	ug/L	0.50	1		12/08/20 17:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 17:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 17:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 17:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 17:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 17:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 17:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 17:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 17:10	75-00-3	
Chloroform	**6.5**	ug/L	0.50	1		12/08/20 17:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 17:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 17:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 17:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 17:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 17:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 17:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 17:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 17:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 17:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 17:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 17:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 17:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 17:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 17:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 17:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 17:10	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: MW-51 **Lab ID: 92509251007** Collected: 12/02/20 09:20 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 17:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 17:10	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 17:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 17:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 17:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 17:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 17:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 17:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 17:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 17:10	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 17:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 17:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 17:10	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 17:10	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 17:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 17:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 17:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 17:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 17:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 17:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 17:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 17:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 17:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 17:10	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 17:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 17:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/08/20 17:10	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		12/08/20 17:10	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/08/20 17:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: FB-1-20201202 **Lab ID: 92509251008** Collected: 12/02/20 16:30 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/10/20 05:20	12/10/20 05:20		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/10/20 05:20	12/10/20 05:20		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/10/20 05:20	12/10/20 05:20	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/10/20 05:20	12/10/20 05:20	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	12/10/20 05:20	12/10/20 05:20	615-59-8FID	
2,5-Dibromotoluene (PID)	99.8	%	70.0-130	1	12/10/20 05:20	12/10/20 05:20	615-59-8PID	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 13:49	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 13:49	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 13:49	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 13:49	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 13:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 13:49	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 13:49	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 13:49	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 13:49	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 13:49	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 13:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 13:49	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/07/20 13:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 13:49	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 13:49	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 13:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 13:49	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 13:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 13:49	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 13:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 13:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 13:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 13:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 13:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 13:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 13:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 13:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 13:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 13:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 13:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 13:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 13:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 13:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 13:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 13:49	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 13:49	108-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: FB-1-20201202 **Lab ID: 92509251008** Collected: 12/02/20 16:30 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 13:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 13:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 13:49	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 13:49	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 13:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 13:49	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 13:49	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 13:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 13:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 13:49	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 13:49	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 13:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 13:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 13:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 13:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 13:49	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 13:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 13:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 13:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 13:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 13:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 13:49	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 13:49	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 13:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		12/07/20 13:49	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/07/20 13:49	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/07/20 13:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: Trip Blank **Lab ID: 92509251009** Collected: 12/02/20 00:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 14:06	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 14:06	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 14:06	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 14:06	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 14:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 14:06	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 14:06	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 14:06	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 14:06	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 14:06	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 14:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 14:06	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/07/20 14:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 14:06	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 14:06	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 14:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 14:06	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 14:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 14:06	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 14:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 14:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 14:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 14:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 14:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 14:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 14:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 14:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 14:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 14:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 14:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 14:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 14:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 14:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 14:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 14:06	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 14:06	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 14:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 14:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 14:06	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 14:06	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 14:06	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 14:06	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 14:06	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 14:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 14:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 14:06	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Sample: Trip Blank **Lab ID: 92509251009** Collected: 12/02/20 00:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 14:06	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 14:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 14:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 14:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 14:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 14:06	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 14:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 14:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 14:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 14:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 14:06	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 14:06	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 14:06	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 14:06	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/07/20 14:06	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1		12/07/20 14:06	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/07/20 14:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

QC Batch: 1587907 Analysis Method: MADEP VPH
QC Batch Method: MADEPV Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92509251001, 92509251002, 92509251003, 92509251004, 92509251005

METHOD BLANK: R3601495-3 Matrix: Water
Associated Lab Samples: 92509251001, 92509251002, 92509251003, 92509251004, 92509251005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/07/20 16:43	
Aliphatic (C09-C12)	ug/L	ND	100	12/07/20 16:43	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/07/20 16:43	
Total VPH	ug/L	ND	100	12/07/20 16:43	
2,5-Dibromotoluene (FID)	%	81	70.0-130	12/07/20 16:43	
2,5-Dibromotoluene (PID)	%	73.2	70.0-130	12/07/20 16:43	

LABORATORY CONTROL SAMPLE & LCSD: R3601495-1 R3601495-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1120	95.8	93.3	70.0-130	2.64	25	
Aliphatic (C09-C12)	ug/L	1400	1280	1250	91.4	89.3	70.0-130	2.37	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	169	168	84.5	84.0	70.0-130	0.593	25	
Total VPH	ug/L	2800	2600	2540	92.9	90.7	70.0-130	2.33	25	
2,5-Dibromotoluene (FID)	%				87.7	84.7	70.0-130			
2,5-Dibromotoluene (PID)	%				81.9	78.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

QC Batch: 1589126 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92509251006, 92509251007, 92509251008

METHOD BLANK: R3602056-3 Matrix: Water
Associated Lab Samples: 92509251006, 92509251007, 92509251008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/10/20 04:47	
Aliphatic (C09-C12)	ug/L	ND	100	12/10/20 04:47	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/10/20 04:47	
Total VPH	ug/L	ND	100	12/10/20 04:47	
2,5-Dibromotoluene (FID)	%	100	70.0-130	12/10/20 04:47	
2,5-Dibromotoluene (PID)	%	98.3	70.0-130	12/10/20 04:47	

LABORATORY CONTROL SAMPLE & LCSD: R3602056-1 R3602056-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1400	1400	117	117	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1630	1590	116	114	70.0-130	2.48	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	219	216	110	108	70.0-130	1.38	25	
Total VPH	ug/L	2800	3250	3210	116	115	70.0-130	1.24	25	
2,5-Dibromotoluene (FID)	%				103	103	70.0-130			
2,5-Dibromotoluene (PID)	%				104	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

QC Batch: 1589662
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92509251006

METHOD BLANK: R3602464-3 Matrix: Water
Associated Lab Samples: 92509251006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/11/20 00:31	
2,5-Dibromotoluene (FID)	%	84.4	70.0-130	12/11/20 00:31	
2,5-Dibromotoluene (PID)	%	85.1	70.0-130	12/11/20 00:31	

LABORATORY CONTROL SAMPLE & LCSD: R3602464-1 R3602464-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1340	1340	112	112	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				88.3	91.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.5	92.4	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

QC Batch: 585194 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92509251001, 92509251002, 92509251003, 92509251004, 92509251005, 92509251006, 92509251007

METHOD BLANK: 3093302 Matrix: Water
Associated Lab Samples: 92509251001, 92509251002, 92509251003, 92509251004, 92509251005, 92509251006, 92509251007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/09/20 15:19	

LABORATORY CONTROL SAMPLE: 3093303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	245	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3093304 3093305

Parameter	Units	92508272001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	257	253	103	101	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

QC Batch: 584686 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92509251001, 92509251002, 92509251003, 92509251004, 92509251005, 92509251008, 92509251009

METHOD BLANK: 3090783 Matrix: Water
Associated Lab Samples: 92509251001, 92509251002, 92509251003, 92509251004, 92509251005, 92509251008, 92509251009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/07/20 12:38	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/07/20 12:38	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/07/20 12:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
1,3-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
2,2-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
2-Chlorotoluene	ug/L	ND	0.50	12/07/20 12:38	
4-Chlorotoluene	ug/L	ND	0.50	12/07/20 12:38	
Benzene	ug/L	ND	0.50	12/07/20 12:38	
Bromobenzene	ug/L	ND	0.50	12/07/20 12:38	
Bromochloromethane	ug/L	ND	0.50	12/07/20 12:38	
Bromodichloromethane	ug/L	ND	0.50	12/07/20 12:38	
Bromoform	ug/L	ND	0.50	12/07/20 12:38	
Bromomethane	ug/L	ND	5.0	12/07/20 12:38	
Carbon tetrachloride	ug/L	ND	0.50	12/07/20 12:38	
Chlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
Chloroethane	ug/L	ND	1.0	12/07/20 12:38	
Chloroform	ug/L	ND	0.50	12/07/20 12:38	
Chloromethane	ug/L	ND	1.0	12/07/20 12:38	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
Dibromochloromethane	ug/L	ND	0.50	12/07/20 12:38	
Dibromomethane	ug/L	ND	0.50	12/07/20 12:38	
Dichlorodifluoromethane	ug/L	ND	0.50	12/07/20 12:38	
Diisopropyl ether	ug/L	ND	0.50	12/07/20 12:38	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

METHOD BLANK: 3090783 Matrix: Water
Associated Lab Samples: 92509251001, 92509251002, 92509251003, 92509251004, 92509251005, 92509251008, 92509251009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/07/20 12:38	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/07/20 12:38	
m&p-Xylene	ug/L	ND	1.0	12/07/20 12:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/07/20 12:38	
Methylene Chloride	ug/L	ND	2.0	12/07/20 12:38	
n-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
n-Propylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Naphthalene	ug/L	ND	2.0	12/07/20 12:38	
o-Xylene	ug/L	ND	0.50	12/07/20 12:38	
sec-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Styrene	ug/L	ND	0.50	12/07/20 12:38	
tert-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Tetrachloroethene	ug/L	ND	0.50	12/07/20 12:38	
Toluene	ug/L	ND	0.50	12/07/20 12:38	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
Trichloroethene	ug/L	ND	0.50	12/07/20 12:38	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/20 12:38	
Vinyl chloride	ug/L	ND	1.0	12/07/20 12:38	
1,2-Dichloroethane-d4 (S)	%	106	70-130	12/07/20 12:38	
4-Bromofluorobenzene (S)	%	104	70-130	12/07/20 12:38	
Toluene-d8 (S)	%	105	70-130	12/07/20 12:38	

LABORATORY CONTROL SAMPLE: 3090784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.3	115	60-140	
1,1,1-Trichloroethane	ug/L	50	60.1	120	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	100	60-140	
1,1,2-Trichloroethane	ug/L	50	53.2	106	60-140	
1,1-Dichloroethane	ug/L	50	56.1	112	60-140	
1,1-Dichloroethene	ug/L	50	57.2	114	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.8	98	60-140	
1,2,3-Trichloropropane	ug/L	50	49.1	98	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.8	94	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.0	94	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.3	115	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	60-140	
1,2-Dichlorobenzene	ug/L	50	48.9	98	60-140	
1,2-Dichloroethane	ug/L	50	52.1	104	60-140	
1,2-Dichloropropane	ug/L	50	55.4	111	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.3	99	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

LABORATORY CONTROL SAMPLE: 3090784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.4	97	60-140	
1,3-Dichloropropane	ug/L	50	51.0	102	60-140	
1,4-Dichlorobenzene	ug/L	50	47.5	95	60-140	
2,2-Dichloropropane	ug/L	50	65.6	131	60-140	
2-Chlorotoluene	ug/L	50	49.4	99	60-140	
4-Chlorotoluene	ug/L	50	48.1	96	60-140	
Benzene	ug/L	50	53.3	107	60-140	
Bromobenzene	ug/L	50	49.1	98	60-140	
Bromochloromethane	ug/L	50	53.9	108	60-140	
Bromodichloromethane	ug/L	50	52.0	104	60-140	
Bromoform	ug/L	50	59.3	119	60-140	
Bromomethane	ug/L	50	48.9	98	60-140	
Carbon tetrachloride	ug/L	50	58.2	116	60-140	
Chlorobenzene	ug/L	50	48.1	96	60-140	
Chloroethane	ug/L	50	46.6	93	60-140	
Chloroform	ug/L	50	55.2	110	60-140	
Chloromethane	ug/L	50	49.6	99	60-140	
cis-1,2-Dichloroethene	ug/L	50	54.2	108	60-140	
cis-1,3-Dichloropropene	ug/L	50	59.0	118	60-140	
Dibromochloromethane	ug/L	50	57.8	116	60-140	
Dibromomethane	ug/L	50	50.9	102	60-140	
Dichlorodifluoromethane	ug/L	50	46.5	93	60-140	
Diisopropyl ether	ug/L	50	55.7	111	60-140	
Ethylbenzene	ug/L	50	47.3	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.5	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.8	96	60-140	
m&p-Xylene	ug/L	100	95.6	96	60-140	
Methyl-tert-butyl ether	ug/L	50	55.4	111	60-140	
Methylene Chloride	ug/L	50	51.5	103	60-140	
n-Butylbenzene	ug/L	50	48.8	98	60-140	
n-Propylbenzene	ug/L	50	48.9	98	60-140	
Naphthalene	ug/L	50	48.4	97	60-140	
o-Xylene	ug/L	50	48.4	97	60-140	
sec-Butylbenzene	ug/L	50	48.3	97	60-140	
Styrene	ug/L	50	47.7	95	60-140	
tert-Butylbenzene	ug/L	50	42.1	84	60-140	
Tetrachloroethene	ug/L	50	46.8	94	60-140	
Toluene	ug/L	50	52.2	104	60-140	
trans-1,2-Dichloroethene	ug/L	50	56.2	112	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	60-140	
Trichloroethene	ug/L	50	52.3	105	60-140	
Trichlorofluoromethane	ug/L	50	50.3	101	60-140	
Vinyl chloride	ug/L	50	50.3	101	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090785 3090786

Parameter	Units	92509253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	26.8	30.1	134	150	60-140	12	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	26.6	27.3	133	136	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	24.4	26.7	122	133	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.6	25.7	118	129	60-140	9	
1,1-Dichloroethane	ug/L	ND	20	20	25.6	26.0	128	130	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	26.0	26.5	130	132	60-140	2	
1,1-Dichloropropene	ug/L	ND	20	20	26.3	26.8	132	134	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	24.3	26.1	122	131	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	20	20	24.5	27.6	123	138	60-140	12	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	24.4	26.2	122	131	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.0	24.6	115	123	60-140	7	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	27.4	27.1	137	136	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	26.4	28.7	132	144	60-140	9	M1
1,2-Dichlorobenzene	ug/L	ND	20	20	23.6	26.1	118	131	60-140	10	
1,2-Dichloroethane	ug/L	ND	20	20	22.9	23.7	115	118	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	25.2	27.3	126	136	60-140	8	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	24.1	25.4	120	127	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.5	25.5	118	127	60-140	8	
1,3-Dichloropropane	ug/L	ND	20	20	26.6	29.2	133	146	60-140	9	M1
1,4-Dichlorobenzene	ug/L	ND	20	20	22.8	25.0	114	125	60-140	9	
2,2-Dichloropropane	ug/L	ND	20	20	29.6	29.9	148	149	60-140	1	M1
2-Chlorotoluene	ug/L	ND	20	20	24.0	25.7	120	129	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	24.0	25.7	120	128	60-140	7	
Benzene	ug/L	ND	20	20	24.7	26.3	123	132	60-140	7	
Bromobenzene	ug/L	ND	20	20	23.5	25.7	117	129	60-140	9	
Bromochloromethane	ug/L	ND	20	20	24.2	24.6	121	123	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	22.7	24.8	114	124	60-140	9	
Bromoform	ug/L	ND	20	20	26.2	28.9	131	144	60-140	10	M1
Bromomethane	ug/L	ND	20	20	24.0	23.9	120	119	60-140	0	
Carbon tetrachloride	ug/L	ND	20	20	27.5	28.6	137	143	60-140	4	M1
Chlorobenzene	ug/L	ND	20	20	23.7	26.3	118	132	60-140	11	
Chloroethane	ug/L	ND	20	20	24.8	23.5	124	117	60-140	5	
Chloroform	ug/L	ND	20	20	24.8	24.4	124	122	60-140	2	
Chloromethane	ug/L	ND	20	20	21.0	20.9	105	105	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.4	25.4	122	127	60-140	4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	26.2	27.3	131	136	60-140	4	
Dibromochloromethane	ug/L	ND	20	20	27.2	30.5	136	153	60-140	11	M1
Dibromomethane	ug/L	ND	20	20	22.4	24.9	112	125	60-140	11	
Dichlorodifluoromethane	ug/L	ND	20	20	18.2	18.0	91	90	60-140	1	
Diisopropyl ether	ug/L	ND	20	20	23.4	24.3	117	122	60-140	4	
Ethylbenzene	ug/L	ND	20	20	23.9	26.5	120	133	60-140	10	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	28.8	30.7	144	154	60-140	6	M1
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.3	26.5	121	132	60-140	9	
m&p-Xylene	ug/L	ND	40	40	48.7	53.4	122	133	60-140	9	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.5	24.4	118	122	60-140	4	
Methylene Chloride	ug/L	ND	20	20	23.6	23.9	118	120	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090785 3090786

Parameter	Units	92509253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	26.6	27.5	133	138	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	24.6	25.5	123	127	60-140	3	
Naphthalene	ug/L	ND	20	20	23.0	25.2	115	126	60-140	9	
o-Xylene	ug/L	ND	20	20	24.5	26.6	122	133	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	25.6	27.0	128	135	60-140	6	
Styrene	ug/L	ND	20	20	24.1	26.2	120	131	60-140	9	
tert-Butylbenzene	ug/L	ND	20	20	21.4	22.8	107	114	60-140	6	
Tetrachloroethene	ug/L	ND	20	20	23.0	24.9	115	124	60-140	8	
Toluene	ug/L	ND	20	20	22.8	24.6	114	123	60-140	8	
trans-1,2-Dichloroethene	ug/L	ND	20	20	26.1	26.1	130	130	60-140	0	
trans-1,3-Dichloropropene	ug/L	ND	20	20	25.8	27.9	129	140	60-140	8	
Trichloroethene	ug/L	ND	20	20	24.8	26.1	124	130	60-140	5	
Trichlorofluoromethane	ug/L	ND	20	20	23.1	23.5	116	117	60-140	1	
Vinyl chloride	ug/L	ND	20	20	22.1	21.9	111	110	60-140	1	
1,2-Dichloroethane-d4 (S)	%						102	103	70-130		
4-Bromofluorobenzene (S)	%						101	101	70-130		
Toluene-d8 (S)	%						98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

QC Batch: 585381
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92509251006, 92509251007

METHOD BLANK: 3094105 Matrix: Water
Associated Lab Samples: 92509251006, 92509251007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/08/20 15:06	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/08/20 15:06	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/08/20 15:06	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
1,3-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
2,2-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
2-Chlorotoluene	ug/L	ND	0.50	12/08/20 15:06	
4-Chlorotoluene	ug/L	ND	0.50	12/08/20 15:06	
Benzene	ug/L	ND	0.50	12/08/20 15:06	
Bromobenzene	ug/L	ND	0.50	12/08/20 15:06	
Bromochloromethane	ug/L	ND	0.50	12/08/20 15:06	
Bromodichloromethane	ug/L	ND	0.50	12/08/20 15:06	
Bromoform	ug/L	ND	0.50	12/08/20 15:06	
Bromomethane	ug/L	ND	5.0	12/08/20 15:06	
Carbon tetrachloride	ug/L	ND	0.50	12/08/20 15:06	
Chlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
Chloroethane	ug/L	ND	1.0	12/08/20 15:06	
Chloroform	ug/L	ND	0.50	12/08/20 15:06	
Chloromethane	ug/L	ND	1.0	12/08/20 15:06	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
Dibromochloromethane	ug/L	ND	0.50	12/08/20 15:06	
Dibromomethane	ug/L	ND	0.50	12/08/20 15:06	
Dichlorodifluoromethane	ug/L	ND	0.50	12/08/20 15:06	
Diisopropyl ether	ug/L	ND	0.50	12/08/20 15:06	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

METHOD BLANK: 3094105 Matrix: Water
Associated Lab Samples: 92509251006, 92509251007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/08/20 15:06	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/08/20 15:06	
m&p-Xylene	ug/L	ND	1.0	12/08/20 15:06	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/08/20 15:06	
Methylene Chloride	ug/L	ND	2.0	12/08/20 15:06	
n-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
n-Propylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Naphthalene	ug/L	ND	2.0	12/08/20 15:06	
o-Xylene	ug/L	ND	0.50	12/08/20 15:06	
sec-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Styrene	ug/L	ND	0.50	12/08/20 15:06	
tert-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Tetrachloroethene	ug/L	ND	0.50	12/08/20 15:06	
Toluene	ug/L	ND	0.50	12/08/20 15:06	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
Trichloroethene	ug/L	ND	0.50	12/08/20 15:06	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/20 15:06	
Vinyl chloride	ug/L	ND	1.0	12/08/20 15:06	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/08/20 15:06	
4-Bromofluorobenzene (S)	%	103	70-130	12/08/20 15:06	
Toluene-d8 (S)	%	102	70-130	12/08/20 15:06	

LABORATORY CONTROL SAMPLE: 3094106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.6	117	60-140	
1,1,1-Trichloroethane	ug/L	50	49.3	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	60-140	
1,1,2-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1-Dichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethene	ug/L	50	47.6	95	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.0	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.2	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.5	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.9	114	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	60-140	
1,2-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,2-Dichloroethane	ug/L	50	44.6	89	60-140	
1,2-Dichloropropane	ug/L	50	48.2	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.7	97	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

LABORATORY CONTROL SAMPLE: 3094106

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	54.0	108	60-140	
1,4-Dichlorobenzene	ug/L	50	48.1	96	60-140	
2,2-Dichloropropane	ug/L	50	52.9	106	60-140	
2-Chlorotoluene	ug/L	50	49.5	99	60-140	
4-Chlorotoluene	ug/L	50	48.7	97	60-140	
Benzene	ug/L	50	46.7	93	60-140	
Bromobenzene	ug/L	50	49.4	99	60-140	
Bromochloromethane	ug/L	50	47.2	94	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	56.0	112	60-140	
Bromomethane	ug/L	50	43.3	87	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	48.7	97	60-140	
Chloroethane	ug/L	50	41.3	83	60-140	
Chloroform	ug/L	50	46.2	92	60-140	
Chloromethane	ug/L	50	41.8	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	60-140	
Dibromochloromethane	ug/L	50	56.6	113	60-140	
Dibromomethane	ug/L	50	46.3	93	60-140	
Dichlorodifluoromethane	ug/L	50	39.4	79	60-140	
Diisopropyl ether	ug/L	50	46.9	94	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.4	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.6	97	60-140	
m&p-Xylene	ug/L	100	98.0	98	60-140	
Methyl-tert-butyl ether	ug/L	50	46.8	94	60-140	
Methylene Chloride	ug/L	50	43.9	88	60-140	
n-Butylbenzene	ug/L	50	50.2	100	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	49.1	98	60-140	
sec-Butylbenzene	ug/L	50	49.2	98	60-140	
Styrene	ug/L	50	49.1	98	60-140	
tert-Butylbenzene	ug/L	50	41.9	84	60-140	
Tetrachloroethene	ug/L	50	45.6	91	60-140	
Toluene	ug/L	50	44.9	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	60-140	
Trichloroethene	ug/L	50	45.4	91	60-140	
Trichlorofluoromethane	ug/L	50	41.6	83	60-140	
Vinyl chloride	ug/L	50	42.6	85	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3095116 3095117

Parameter	Units	92509251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	500	518	125	130	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	400	400	448	465	112	116	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	446	450	112	112	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	400	400	416	435	104	109	60-140	5	
1,1-Dichloroethane	ug/L	ND	400	400	424	440	106	110	60-140	4	
1,1-Dichloroethene	ug/L	ND	400	400	430	454	108	114	60-140	5	
1,1-Dichloropropene	ug/L	ND	400	400	447	462	112	116	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	400	400	442	460	111	115	60-140	4	
1,2,3-Trichloropropane	ug/L	ND	400	400	446	448	112	112	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	400	400	426	444	107	111	60-140	4	
1,2,4-Trimethylbenzene	ug/L	270	400	400	713	727	111	114	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	488	464	122	116	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	458	474	115	118	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	400	400	442	460	111	115	60-140	4	
1,2-Dichloroethane	ug/L	ND	400	400	383	409	96	102	60-140	6	
1,2-Dichloropropane	ug/L	ND	400	400	437	453	109	113	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	400	400	522	535	131	134	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	400	400	441	458	110	114	60-140	4	
1,3-Dichloropropane	ug/L	ND	400	400	464	485	116	121	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	400	400	438	453	110	113	60-140	3	
2,2-Dichloropropane	ug/L	ND	400	400	489	511	122	128	60-140	4	
2-Chlorotoluene	ug/L	ND	400	400	459	467	115	117	60-140	2	
4-Chlorotoluene	ug/L	ND	400	400	449	453	112	113	60-140	1	
Benzene	ug/L	3730	400	400	3980	4140	62	102	60-140	4	E
Bromobenzene	ug/L	ND	400	400	447	461	112	115	60-140	3	
Bromochloromethane	ug/L	ND	400	400	399	432	100	108	60-140	8	
Bromodichloromethane	ug/L	ND	400	400	399	418	100	104	60-140	5	
Bromoform	ug/L	ND	400	400	456	473	114	118	60-140	3	
Bromomethane	ug/L	ND	400	400	397	421	99	105	60-140	6	
Carbon tetrachloride	ug/L	ND	400	400	463	477	116	119	60-140	3	
Chlorobenzene	ug/L	ND	400	400	442	453	110	113	60-140	3	
Chloroethane	ug/L	ND	400	400	388	435	97	109	60-140	11	
Chloroform	ug/L	ND	400	400	412	435	103	109	60-140	5	
Chloromethane	ug/L	ND	400	400	371	384	93	96	60-140	3	
cis-1,2-Dichloroethene	ug/L	ND	400	400	421	436	105	109	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	400	400	440	467	110	117	60-140	6	
Dibromochloromethane	ug/L	ND	400	400	477	505	119	126	60-140	6	
Dibromomethane	ug/L	ND	400	400	399	413	100	103	60-140	3	
Dichlorodifluoromethane	ug/L	ND	400	400	298	319	74	80	60-140	7	
Diisopropyl ether	ug/L	482	400	400	888	922	102	110	60-140	4	
Ethylbenzene	ug/L	406	400	400	829	858	106	113	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	400	400	522	523	131	131	60-140	0	
Isopropylbenzene (Cumene)	ug/L	10.3	400	400	461	466	113	114	60-140	1	
m&p-Xylene	ug/L	1950	800	800	2730	2860	98	113	60-140	4	
Methyl-tert-butyl ether	ug/L	287	400	400	691	714	101	107	60-140	3	
Methylene Chloride	ug/L	ND	400	400	402	413	96	98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3095116 3095117

Parameter	Units	92509251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	400	400	487	496	122	124	60-140	2	
n-Propylbenzene	ug/L	ND	400	400	476	489	119	122	60-140	3	
Naphthalene	ug/L	68.3	400	400	513	514	111	111	60-140	0	
o-Xylene	ug/L	962	400	400	1360	1420	99	115	60-140	5	
sec-Butylbenzene	ug/L	ND	400	400	466	484	117	121	60-140	4	
Styrene	ug/L	ND	400	400	433	457	108	114	60-140	5	
tert-Butylbenzene	ug/L	ND	400	400	399	410	100	103	60-140	3	
Tetrachloroethene	ug/L	ND	400	400	423	433	106	108	60-140	2	
Toluene	ug/L	3760	400	400	3890	3990	32	57	60-140	3	M1
trans-1,2-Dichloroethene	ug/L	ND	400	400	430	447	108	112	60-140	4	
trans-1,3-Dichloropropene	ug/L	ND	400	400	446	447	111	112	60-140	0	
Trichloroethene	ug/L	ND	400	400	425	435	106	109	60-140	2	
Trichlorofluoromethane	ug/L	ND	400	400	389	409	97	102	60-140	5	
Vinyl chloride	ug/L	ND	400	400	345	363	86	91	60-140	5	
1,2-Dichloroethane-d4 (S)	%						104	102	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509251

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92509251001	**MW-13**	MADEPV	1587907	MADEP VPH	1587907
92509251002	**MW-14**	MADEPV	1587907	MADEP VPH	1587907
92509251003	**MW-45**	MADEPV	1587907	MADEP VPH	1587907
92509251004	**MW-46**	MADEPV	1587907	MADEP VPH	1587907
92509251005	**MW-49**	MADEPV	1587907	MADEP VPH	1587907
92509251006	**MW-50**	MADEPV	1589126	MADEP VPH	1589126
92509251006	**MW-50**	MADEPV	1589662	MADEP VPH	1589662
92509251007	**MW-51**	MADEPV	1589126	MADEP VPH	1589126
92509251008	**FB-1-20201202**	MADEPV	1589126	MADEP VPH	1589126
92509251001	**MW-13**	EPA 3010A	585194	EPA 6010D	585203
92509251002	**MW-14**	EPA 3010A	585194	EPA 6010D	585203
92509251003	**MW-45**	EPA 3010A	585194	EPA 6010D	585203
92509251004	**MW-46**	EPA 3010A	585194	EPA 6010D	585203
92509251005	**MW-49**	EPA 3010A	585194	EPA 6010D	585203
92509251006	**MW-50**	EPA 3010A	585194	EPA 6010D	585203
92509251007	**MW-51**	EPA 3010A	585194	EPA 6010D	585203
92509251001	**MW-13**	SM 6200B	584686		
92509251002	**MW-14**	SM 6200B	584686		
92509251003	**MW-45**	SM 6200B	584686		
92509251004	**MW-46**	SM 6200B	584686		
92509251005	**MW-49**	SM 6200B	584686		
92509251006	**MW-50**	SM 6200B	585381		
92509251007	**MW-51**	SM 6200B	585381		
92509251008	**FB-1-20201202**	SM 6200B	584686		
92509251009	**Trip Blank**	SM 6200B	584686		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 92509251

92509251

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 12/3/20 LDH

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: 0.9 **Correction Factor:** Add/Subtract (°C) -0.1 Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 0.8 ☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

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

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

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

Project #

WO# : 92509251

PM: NMG Due Date: 12/09/20

CLIENT: 92-AECOM CHA

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													
3						1										7													
4						1										7													
5						1										7													
6						1										7													
7						1										7													
8																7													
9																2													
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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	AECOM	Report To:	Andrew Wreschnig	Attention:	
Address:	6000 Fairview Road	Copy To:		Company Name:	
Suite 200, Charlotte, NC 28226				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	(704)522-0330 Fax	Project Name:	Colonial Pipeline	Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	12518-3

Regulatory Agency
State / Location
NC

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	92509251
1	MW-13	WT	G			12/2	1500		8			X	X						X	X	X			001
2	MW-14						1245																	002
3	MW-15						1015																	003
4	MW-46						0815																	004
5	MW-49						1105																	005
6	MW-50						1330																	006
7	MW-51						0920																	007
8	FB-1-20201202						1630																	008
9	Trip Blank	WT	G						1	Lab Provided												X		009
10																								
11																								
12																								

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Emily R. Love/AECOM	12/2/20	1700	MDG Pace ATL	12-2-20	1700	0.8	Y	N	Y

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Emily Love			
SIGNATURE of SAMPLER:	Emily R. Love	DATE Signed:	12/2/2020	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 09, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on December 02, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92509252001	**MW-19**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509252002	**MW-31**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509252003	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

Sample: MW-19 **Lab ID: 92509252001** Collected: 12/02/20 10:15 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/08/20 01:32	12/08/20 01:32		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/08/20 01:32	12/08/20 01:32		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/08/20 01:32	12/08/20 01:32	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/08/20 01:32	12/08/20 01:32	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.8	%	70.0-130	1	12/08/20 01:32	12/08/20 01:32	615-59-8FID	
2,5-Dibromotoluene (PID)	79.0	%	70.0-130	1	12/08/20 01:32	12/08/20 01:32	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**13.7**	ug/L	5.0	1	12/08/20 01:57	12/09/20 16:39	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 17:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 17:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 17:28	74-97-5	
Bromodichloromethane	**0.70**	ug/L	0.50	1		12/08/20 17:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 17:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 17:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 17:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 17:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 17:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 17:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 17:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 17:28	75-00-3	
Chloroform	**10.2**	ug/L	0.50	1		12/08/20 17:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 17:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 17:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 17:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 17:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 17:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 17:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 17:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 17:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 17:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 17:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 17:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 17:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 17:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 17:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 17:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 17:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 17:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 17:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 17:28	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

Sample: MW-19 **Lab ID: 92509252001** Collected: 12/02/20 10:15 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 17:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 17:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 17:28	10061-02-6	
Diisopropyl ether	**1.2**	ug/L	0.50	1		12/08/20 17:28	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 17:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 17:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 17:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 17:28	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 17:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 17:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 17:28	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 17:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 17:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 17:28	79-34-5	
Tetrachloroethene	**1.4**	ug/L	0.50	1		12/08/20 17:28	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 17:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 17:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 17:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 17:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 17:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 17:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 17:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 17:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 17:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 17:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 17:28	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 17:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 17:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/08/20 17:28	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/08/20 17:28	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/08/20 17:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

Sample: MW-31 **Lab ID: 92509252002** Collected: 12/02/20 10:05 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/08/20 02:05	12/08/20 02:05		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/08/20 02:05	12/08/20 02:05		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/08/20 02:05	12/08/20 02:05	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/08/20 02:05	12/08/20 02:05	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.9	%	70.0-130	1	12/08/20 02:05	12/08/20 02:05	615-59-8FID	
2,5-Dibromotoluene (PID)	78.7	%	70.0-130	1	12/08/20 02:05	12/08/20 02:05	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**12.2**	ug/L	5.0	1	12/08/20 01:57	12/09/20 16:42	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 17:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 17:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 17:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 17:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 17:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 17:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 17:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 17:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 17:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 17:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 17:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 17:21	75-00-3	
Chloroform	**3.1**	ug/L	0.50	1		12/07/20 17:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 17:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 17:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 17:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 17:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 17:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 17:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 17:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 17:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 17:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 17:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 17:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 17:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 17:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 17:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 17:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 17:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 17:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 17:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 17:21	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

Sample: MW-31 **Lab ID: 92509252002** Collected: 12/02/20 10:05 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 17:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 17:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 17:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 17:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 17:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 17:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 17:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 17:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 17:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 17:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 17:21	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 17:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 17:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 17:21	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 17:21	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 17:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 17:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 17:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 17:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 17:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 17:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 17:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 17:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 17:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 17:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 17:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 17:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 17:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		12/07/20 17:21	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1		12/07/20 17:21	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/07/20 17:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

Sample: Trip Blank **Lab ID: 92509252003** Collected: 12/02/20 00:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 14:24	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 14:24	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 14:24	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 14:24	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 14:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/07/20 14:24	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 14:24	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 14:24	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 14:24	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 14:24	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 14:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 14:24	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/07/20 14:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 14:24	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 14:24	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 14:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 14:24	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 14:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 14:24	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/07/20 14:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 14:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 14:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 14:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 14:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 14:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 14:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 14:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 14:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 14:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 14:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 14:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 14:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 14:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 14:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 14:24	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 14:24	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 14:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 14:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 14:24	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 14:24	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 14:24	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 14:24	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 14:24	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 14:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 14:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 14:24	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

Sample: Trip Blank **Lab ID: 92509252003** Collected: 12/02/20 00:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 14:24	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 14:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 14:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 14:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 14:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 14:24	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 14:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 14:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 14:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 14:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 14:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 14:24	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 14:24	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 14:24	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		12/07/20 14:24	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		12/07/20 14:24	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/07/20 14:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

QC Batch: 1587907
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92509252001, 92509252002

METHOD BLANK: R3601495-3 Matrix: Water
Associated Lab Samples: 92509252001, 92509252002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/07/20 16:43	
Aliphatic (C09-C12)	ug/L	ND	100	12/07/20 16:43	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/07/20 16:43	
Total VPH	ug/L	ND	100	12/07/20 16:43	
2,5-Dibromotoluene (FID)	%	81	70.0-130	12/07/20 16:43	
2,5-Dibromotoluene (PID)	%	73.2	70.0-130	12/07/20 16:43	

LABORATORY CONTROL SAMPLE & LCSD: R3601495-1 R3601495-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1120	95.8	93.3	70.0-130	2.64	25	
Aliphatic (C09-C12)	ug/L	1400	1280	1250	91.4	89.3	70.0-130	2.37	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	169	168	84.5	84.0	70.0-130	0.593	25	
Total VPH	ug/L	2800	2600	2540	92.9	90.7	70.0-130	2.33	25	
2,5-Dibromotoluene (FID)	%				87.7	84.7	70.0-130			
2,5-Dibromotoluene (PID)	%				81.9	78.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

QC Batch: 585194
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92509252001, 92509252002

METHOD BLANK: 3093302 Matrix: Water
Associated Lab Samples: 92509252001, 92509252002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/09/20 15:19	

LABORATORY CONTROL SAMPLE: 3093303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	245	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3093304 3093305

Parameter	Units	92508272001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	257	253	103	101	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

QC Batch: 584686
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92509252002, 92509252003

METHOD BLANK: 3090783 Matrix: Water
Associated Lab Samples: 92509252002, 92509252003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/07/20 12:38	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/07/20 12:38	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/07/20 12:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
1,3-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
2,2-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
2-Chlorotoluene	ug/L	ND	0.50	12/07/20 12:38	
4-Chlorotoluene	ug/L	ND	0.50	12/07/20 12:38	
Benzene	ug/L	ND	0.50	12/07/20 12:38	
Bromobenzene	ug/L	ND	0.50	12/07/20 12:38	
Bromochloromethane	ug/L	ND	0.50	12/07/20 12:38	
Bromodichloromethane	ug/L	ND	0.50	12/07/20 12:38	
Bromoform	ug/L	ND	0.50	12/07/20 12:38	
Bromomethane	ug/L	ND	5.0	12/07/20 12:38	
Carbon tetrachloride	ug/L	ND	0.50	12/07/20 12:38	
Chlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
Chloroethane	ug/L	ND	1.0	12/07/20 12:38	
Chloroform	ug/L	ND	0.50	12/07/20 12:38	
Chloromethane	ug/L	ND	1.0	12/07/20 12:38	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
Dibromochloromethane	ug/L	ND	0.50	12/07/20 12:38	
Dibromomethane	ug/L	ND	0.50	12/07/20 12:38	
Dichlorodifluoromethane	ug/L	ND	0.50	12/07/20 12:38	
Diisopropyl ether	ug/L	ND	0.50	12/07/20 12:38	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

METHOD BLANK: 3090783 Matrix: Water
Associated Lab Samples: 92509252002, 92509252003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/07/20 12:38	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/07/20 12:38	
m&p-Xylene	ug/L	ND	1.0	12/07/20 12:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/07/20 12:38	
Methylene Chloride	ug/L	ND	2.0	12/07/20 12:38	
n-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
n-Propylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Naphthalene	ug/L	ND	2.0	12/07/20 12:38	
o-Xylene	ug/L	ND	0.50	12/07/20 12:38	
sec-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Styrene	ug/L	ND	0.50	12/07/20 12:38	
tert-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Tetrachloroethene	ug/L	ND	0.50	12/07/20 12:38	
Toluene	ug/L	ND	0.50	12/07/20 12:38	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
Trichloroethene	ug/L	ND	0.50	12/07/20 12:38	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/20 12:38	
Vinyl chloride	ug/L	ND	1.0	12/07/20 12:38	
1,2-Dichloroethane-d4 (S)	%	106	70-130	12/07/20 12:38	
4-Bromofluorobenzene (S)	%	104	70-130	12/07/20 12:38	
Toluene-d8 (S)	%	105	70-130	12/07/20 12:38	

LABORATORY CONTROL SAMPLE: 3090784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.3	115	60-140	
1,1,1-Trichloroethane	ug/L	50	60.1	120	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	100	60-140	
1,1,2-Trichloroethane	ug/L	50	53.2	106	60-140	
1,1-Dichloroethane	ug/L	50	56.1	112	60-140	
1,1-Dichloroethene	ug/L	50	57.2	114	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.8	98	60-140	
1,2,3-Trichloropropane	ug/L	50	49.1	98	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.8	94	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.0	94	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.3	115	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	60-140	
1,2-Dichlorobenzene	ug/L	50	48.9	98	60-140	
1,2-Dichloroethane	ug/L	50	52.1	104	60-140	
1,2-Dichloropropane	ug/L	50	55.4	111	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.3	99	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

LABORATORY CONTROL SAMPLE: 3090784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.4	97	60-140	
1,3-Dichloropropane	ug/L	50	51.0	102	60-140	
1,4-Dichlorobenzene	ug/L	50	47.5	95	60-140	
2,2-Dichloropropane	ug/L	50	65.6	131	60-140	
2-Chlorotoluene	ug/L	50	49.4	99	60-140	
4-Chlorotoluene	ug/L	50	48.1	96	60-140	
Benzene	ug/L	50	53.3	107	60-140	
Bromobenzene	ug/L	50	49.1	98	60-140	
Bromochloromethane	ug/L	50	53.9	108	60-140	
Bromodichloromethane	ug/L	50	52.0	104	60-140	
Bromoform	ug/L	50	59.3	119	60-140	
Bromomethane	ug/L	50	48.9	98	60-140	
Carbon tetrachloride	ug/L	50	58.2	116	60-140	
Chlorobenzene	ug/L	50	48.1	96	60-140	
Chloroethane	ug/L	50	46.6	93	60-140	
Chloroform	ug/L	50	55.2	110	60-140	
Chloromethane	ug/L	50	49.6	99	60-140	
cis-1,2-Dichloroethene	ug/L	50	54.2	108	60-140	
cis-1,3-Dichloropropene	ug/L	50	59.0	118	60-140	
Dibromochloromethane	ug/L	50	57.8	116	60-140	
Dibromomethane	ug/L	50	50.9	102	60-140	
Dichlorodifluoromethane	ug/L	50	46.5	93	60-140	
Diisopropyl ether	ug/L	50	55.7	111	60-140	
Ethylbenzene	ug/L	50	47.3	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.5	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.8	96	60-140	
m&p-Xylene	ug/L	100	95.6	96	60-140	
Methyl-tert-butyl ether	ug/L	50	55.4	111	60-140	
Methylene Chloride	ug/L	50	51.5	103	60-140	
n-Butylbenzene	ug/L	50	48.8	98	60-140	
n-Propylbenzene	ug/L	50	48.9	98	60-140	
Naphthalene	ug/L	50	48.4	97	60-140	
o-Xylene	ug/L	50	48.4	97	60-140	
sec-Butylbenzene	ug/L	50	48.3	97	60-140	
Styrene	ug/L	50	47.7	95	60-140	
tert-Butylbenzene	ug/L	50	42.1	84	60-140	
Tetrachloroethene	ug/L	50	46.8	94	60-140	
Toluene	ug/L	50	52.2	104	60-140	
trans-1,2-Dichloroethene	ug/L	50	56.2	112	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	60-140	
Trichloroethene	ug/L	50	52.3	105	60-140	
Trichlorofluoromethane	ug/L	50	50.3	101	60-140	
Vinyl chloride	ug/L	50	50.3	101	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090785 3090786

Parameter	Units	92509253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	26.8	30.1	134	150	60-140	12	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	26.6	27.3	133	136	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	24.4	26.7	122	133	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.6	25.7	118	129	60-140	9	
1,1-Dichloroethane	ug/L	ND	20	20	25.6	26.0	128	130	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	26.0	26.5	130	132	60-140	2	
1,1-Dichloropropene	ug/L	ND	20	20	26.3	26.8	132	134	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	24.3	26.1	122	131	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	20	20	24.5	27.6	123	138	60-140	12	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	24.4	26.2	122	131	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.0	24.6	115	123	60-140	7	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	27.4	27.1	137	136	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	26.4	28.7	132	144	60-140	9	M1
1,2-Dichlorobenzene	ug/L	ND	20	20	23.6	26.1	118	131	60-140	10	
1,2-Dichloroethane	ug/L	ND	20	20	22.9	23.7	115	118	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	25.2	27.3	126	136	60-140	8	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	24.1	25.4	120	127	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.5	25.5	118	127	60-140	8	
1,3-Dichloropropane	ug/L	ND	20	20	26.6	29.2	133	146	60-140	9	M1
1,4-Dichlorobenzene	ug/L	ND	20	20	22.8	25.0	114	125	60-140	9	
2,2-Dichloropropane	ug/L	ND	20	20	29.6	29.9	148	149	60-140	1	M1
2-Chlorotoluene	ug/L	ND	20	20	24.0	25.7	120	129	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	24.0	25.7	120	128	60-140	7	
Benzene	ug/L	ND	20	20	24.7	26.3	123	132	60-140	7	
Bromobenzene	ug/L	ND	20	20	23.5	25.7	117	129	60-140	9	
Bromochloromethane	ug/L	ND	20	20	24.2	24.6	121	123	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	22.7	24.8	114	124	60-140	9	
Bromoform	ug/L	ND	20	20	26.2	28.9	131	144	60-140	10	M1
Bromomethane	ug/L	ND	20	20	24.0	23.9	120	119	60-140	0	
Carbon tetrachloride	ug/L	ND	20	20	27.5	28.6	137	143	60-140	4	M1
Chlorobenzene	ug/L	ND	20	20	23.7	26.3	118	132	60-140	11	
Chloroethane	ug/L	ND	20	20	24.8	23.5	124	117	60-140	5	
Chloroform	ug/L	ND	20	20	24.8	24.4	124	122	60-140	2	
Chloromethane	ug/L	ND	20	20	21.0	20.9	105	105	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.4	25.4	122	127	60-140	4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	26.2	27.3	131	136	60-140	4	
Dibromochloromethane	ug/L	ND	20	20	27.2	30.5	136	153	60-140	11	M1
Dibromomethane	ug/L	ND	20	20	22.4	24.9	112	125	60-140	11	
Dichlorodifluoromethane	ug/L	ND	20	20	18.2	18.0	91	90	60-140	1	
Diisopropyl ether	ug/L	ND	20	20	23.4	24.3	117	122	60-140	4	
Ethylbenzene	ug/L	ND	20	20	23.9	26.5	120	133	60-140	10	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	28.8	30.7	144	154	60-140	6	M1
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.3	26.5	121	132	60-140	9	
m&p-Xylene	ug/L	ND	40	40	48.7	53.4	122	133	60-140	9	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.5	24.4	118	122	60-140	4	
Methylene Chloride	ug/L	ND	20	20	23.6	23.9	118	120	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090785 3090786

Parameter	Units	92509253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	26.6	27.5	133	138	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	24.6	25.5	123	127	60-140	3	
Naphthalene	ug/L	ND	20	20	23.0	25.2	115	126	60-140	9	
o-Xylene	ug/L	ND	20	20	24.5	26.6	122	133	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	25.6	27.0	128	135	60-140	6	
Styrene	ug/L	ND	20	20	24.1	26.2	120	131	60-140	9	
tert-Butylbenzene	ug/L	ND	20	20	21.4	22.8	107	114	60-140	6	
Tetrachloroethene	ug/L	ND	20	20	23.0	24.9	115	124	60-140	8	
Toluene	ug/L	ND	20	20	22.8	24.6	114	123	60-140	8	
trans-1,2-Dichloroethene	ug/L	ND	20	20	26.1	26.1	130	130	60-140	0	
trans-1,3-Dichloropropene	ug/L	ND	20	20	25.8	27.9	129	140	60-140	8	
Trichloroethene	ug/L	ND	20	20	24.8	26.1	124	130	60-140	5	
Trichlorofluoromethane	ug/L	ND	20	20	23.1	23.5	116	117	60-140	1	
Vinyl chloride	ug/L	ND	20	20	22.1	21.9	111	110	60-140	1	
1,2-Dichloroethane-d4 (S)	%						102	103	70-130		
4-Bromofluorobenzene (S)	%						101	101	70-130		
Toluene-d8 (S)	%						98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

QC Batch: 585381
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92509252001

METHOD BLANK: 3094105 Matrix: Water

Associated Lab Samples: 92509252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/08/20 15:06	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/08/20 15:06	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/08/20 15:06	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
1,3-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
2,2-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
2-Chlorotoluene	ug/L	ND	0.50	12/08/20 15:06	
4-Chlorotoluene	ug/L	ND	0.50	12/08/20 15:06	
Benzene	ug/L	ND	0.50	12/08/20 15:06	
Bromobenzene	ug/L	ND	0.50	12/08/20 15:06	
Bromochloromethane	ug/L	ND	0.50	12/08/20 15:06	
Bromodichloromethane	ug/L	ND	0.50	12/08/20 15:06	
Bromoform	ug/L	ND	0.50	12/08/20 15:06	
Bromomethane	ug/L	ND	5.0	12/08/20 15:06	
Carbon tetrachloride	ug/L	ND	0.50	12/08/20 15:06	
Chlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
Chloroethane	ug/L	ND	1.0	12/08/20 15:06	
Chloroform	ug/L	ND	0.50	12/08/20 15:06	
Chloromethane	ug/L	ND	1.0	12/08/20 15:06	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
Dibromochloromethane	ug/L	ND	0.50	12/08/20 15:06	
Dibromomethane	ug/L	ND	0.50	12/08/20 15:06	
Dichlorodifluoromethane	ug/L	ND	0.50	12/08/20 15:06	
Diisopropyl ether	ug/L	ND	0.50	12/08/20 15:06	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

METHOD BLANK: 3094105 Matrix: Water
Associated Lab Samples: 92509252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/08/20 15:06	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/08/20 15:06	
m&p-Xylene	ug/L	ND	1.0	12/08/20 15:06	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/08/20 15:06	
Methylene Chloride	ug/L	ND	2.0	12/08/20 15:06	
n-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
n-Propylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Naphthalene	ug/L	ND	2.0	12/08/20 15:06	
o-Xylene	ug/L	ND	0.50	12/08/20 15:06	
sec-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Styrene	ug/L	ND	0.50	12/08/20 15:06	
tert-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Tetrachloroethene	ug/L	ND	0.50	12/08/20 15:06	
Toluene	ug/L	ND	0.50	12/08/20 15:06	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
Trichloroethene	ug/L	ND	0.50	12/08/20 15:06	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/20 15:06	
Vinyl chloride	ug/L	ND	1.0	12/08/20 15:06	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/08/20 15:06	
4-Bromofluorobenzene (S)	%	103	70-130	12/08/20 15:06	
Toluene-d8 (S)	%	102	70-130	12/08/20 15:06	

LABORATORY CONTROL SAMPLE: 3094106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.6	117	60-140	
1,1,1-Trichloroethane	ug/L	50	49.3	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	60-140	
1,1,2-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1-Dichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethene	ug/L	50	47.6	95	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.0	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.2	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.5	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.9	114	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	60-140	
1,2-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,2-Dichloroethane	ug/L	50	44.6	89	60-140	
1,2-Dichloropropane	ug/L	50	48.2	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.7	97	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

LABORATORY CONTROL SAMPLE: 3094106

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	54.0	108	60-140	
1,4-Dichlorobenzene	ug/L	50	48.1	96	60-140	
2,2-Dichloropropane	ug/L	50	52.9	106	60-140	
2-Chlorotoluene	ug/L	50	49.5	99	60-140	
4-Chlorotoluene	ug/L	50	48.7	97	60-140	
Benzene	ug/L	50	46.7	93	60-140	
Bromobenzene	ug/L	50	49.4	99	60-140	
Bromochloromethane	ug/L	50	47.2	94	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	56.0	112	60-140	
Bromomethane	ug/L	50	43.3	87	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	48.7	97	60-140	
Chloroethane	ug/L	50	41.3	83	60-140	
Chloroform	ug/L	50	46.2	92	60-140	
Chloromethane	ug/L	50	41.8	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	60-140	
Dibromochloromethane	ug/L	50	56.6	113	60-140	
Dibromomethane	ug/L	50	46.3	93	60-140	
Dichlorodifluoromethane	ug/L	50	39.4	79	60-140	
Diisopropyl ether	ug/L	50	46.9	94	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.4	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.6	97	60-140	
m&p-Xylene	ug/L	100	98.0	98	60-140	
Methyl-tert-butyl ether	ug/L	50	46.8	94	60-140	
Methylene Chloride	ug/L	50	43.9	88	60-140	
n-Butylbenzene	ug/L	50	50.2	100	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	49.1	98	60-140	
sec-Butylbenzene	ug/L	50	49.2	98	60-140	
Styrene	ug/L	50	49.1	98	60-140	
tert-Butylbenzene	ug/L	50	41.9	84	60-140	
Tetrachloroethene	ug/L	50	45.6	91	60-140	
Toluene	ug/L	50	44.9	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	60-140	
Trichloroethene	ug/L	50	45.4	91	60-140	
Trichlorofluoromethane	ug/L	50	41.6	83	60-140	
Vinyl chloride	ug/L	50	42.6	85	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3095116 3095117

Parameter	Units	92509251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	500	518	125	130	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	400	400	448	465	112	116	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	446	450	112	112	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	400	400	416	435	104	109	60-140	5	
1,1-Dichloroethane	ug/L	ND	400	400	424	440	106	110	60-140	4	
1,1-Dichloroethene	ug/L	ND	400	400	430	454	108	114	60-140	5	
1,1-Dichloropropene	ug/L	ND	400	400	447	462	112	116	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	400	400	442	460	111	115	60-140	4	
1,2,3-Trichloropropane	ug/L	ND	400	400	446	448	112	112	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	400	400	426	444	107	111	60-140	4	
1,2,4-Trimethylbenzene	ug/L	270	400	400	713	727	111	114	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	488	464	122	116	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	458	474	115	118	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	400	400	442	460	111	115	60-140	4	
1,2-Dichloroethane	ug/L	ND	400	400	383	409	96	102	60-140	6	
1,2-Dichloropropane	ug/L	ND	400	400	437	453	109	113	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	400	400	522	535	131	134	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	400	400	441	458	110	114	60-140	4	
1,3-Dichloropropane	ug/L	ND	400	400	464	485	116	121	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	400	400	438	453	110	113	60-140	3	
2,2-Dichloropropane	ug/L	ND	400	400	489	511	122	128	60-140	4	
2-Chlorotoluene	ug/L	ND	400	400	459	467	115	117	60-140	2	
4-Chlorotoluene	ug/L	ND	400	400	449	453	112	113	60-140	1	
Benzene	ug/L	3730	400	400	3980	4140	62	102	60-140	4	E
Bromobenzene	ug/L	ND	400	400	447	461	112	115	60-140	3	
Bromochloromethane	ug/L	ND	400	400	399	432	100	108	60-140	8	
Bromodichloromethane	ug/L	ND	400	400	399	418	100	104	60-140	5	
Bromoform	ug/L	ND	400	400	456	473	114	118	60-140	3	
Bromomethane	ug/L	ND	400	400	397	421	99	105	60-140	6	
Carbon tetrachloride	ug/L	ND	400	400	463	477	116	119	60-140	3	
Chlorobenzene	ug/L	ND	400	400	442	453	110	113	60-140	3	
Chloroethane	ug/L	ND	400	400	388	435	97	109	60-140	11	
Chloroform	ug/L	ND	400	400	412	435	103	109	60-140	5	
Chloromethane	ug/L	ND	400	400	371	384	93	96	60-140	3	
cis-1,2-Dichloroethene	ug/L	ND	400	400	421	436	105	109	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	400	400	440	467	110	117	60-140	6	
Dibromochloromethane	ug/L	ND	400	400	477	505	119	126	60-140	6	
Dibromomethane	ug/L	ND	400	400	399	413	100	103	60-140	3	
Dichlorodifluoromethane	ug/L	ND	400	400	298	319	74	80	60-140	7	
Diisopropyl ether	ug/L	482	400	400	888	922	102	110	60-140	4	
Ethylbenzene	ug/L	406	400	400	829	858	106	113	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	400	400	522	523	131	131	60-140	0	
Isopropylbenzene (Cumene)	ug/L	10.3	400	400	461	466	113	114	60-140	1	
m&p-Xylene	ug/L	1950	800	800	2730	2860	98	113	60-140	4	
Methyl-tert-butyl ether	ug/L	287	400	400	691	714	101	107	60-140	3	
Methylene Chloride	ug/L	ND	400	400	402	413	96	98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3095116 3095117

Parameter	Units	92509251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	400	400	487	496	122	124	60-140	2	
n-Propylbenzene	ug/L	ND	400	400	476	489	119	122	60-140	3	
Naphthalene	ug/L	68.3	400	400	513	514	111	111	60-140	0	
o-Xylene	ug/L	962	400	400	1360	1420	99	115	60-140	5	
sec-Butylbenzene	ug/L	ND	400	400	466	484	117	121	60-140	4	
Styrene	ug/L	ND	400	400	433	457	108	114	60-140	5	
tert-Butylbenzene	ug/L	ND	400	400	399	410	100	103	60-140	3	
Tetrachloroethene	ug/L	ND	400	400	423	433	106	108	60-140	2	
Toluene	ug/L	3760	400	400	3890	3990	32	57	60-140	3	M1
trans-1,2-Dichloroethene	ug/L	ND	400	400	430	447	108	112	60-140	4	
trans-1,3-Dichloropropene	ug/L	ND	400	400	446	447	111	112	60-140	0	
Trichloroethene	ug/L	ND	400	400	425	435	106	109	60-140	2	
Trichlorofluoromethane	ug/L	ND	400	400	389	409	97	102	60-140	5	
Vinyl chloride	ug/L	ND	400	400	345	363	86	91	60-140	5	
1,2-Dichloroethane-d4 (S)	%						104	102	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509252

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92509252001	**MW-19**	MADEPV	1587907	MADEP VPH	1587907
92509252002	**MW-31**	MADEPV	1587907	MADEP VPH	1587907
92509252001	**MW-19**	EPA 3010A	585194	EPA 6010D	585203
92509252002	**MW-31**	EPA 3010A	585194	EPA 6010D	585203
92509252001	**MW-19**	SM 6200B	585381		
92509252002	**MW-31**	SM 6200B	584686		
92509252003	**Trip Blank**	SM 6200B	584686		

Pace Analytical	Sample Condition Upon Receipt(SCUR)	Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project

WO# : 92509252

92509252

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: 12/3/20 LDH

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: 2.2 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 2.1

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

USDA Regulated Soil (☒ N/A, water sample)

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

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

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

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

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

Project #

WO#: 92509252

PM: NMG Due Date: 12/09/20

CLIENT: 92-AECOM CHA

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)	BP3S-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)	VJGM (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)		AP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
1						1										7												
2						1										7												
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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	AECOM
Address:	6000 Fairview Road
	Suite 200, Charlotte, NC 28226
Email:	
Phone: (704)522-0330	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	Andrew Wreschnig
Copy To:	
Purchase Order #:	
Project Name:	Colonial Pipeline
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Pace Profile #:	12518-3

Regulatory Agency

State / Location: NC

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): 6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	
	MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																								92509252
1	MW-19	TW	G			12/2	1015		3			X	X						X	X	X				001
2	MW-31	"	"			"	1005		"			"	"						"	"	"	X			002
3	Trip Blank	"							"	Lab Provided												X			003
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Emily R. Jove/AECOM	12/2/20	1700	MDG/Pace HV	12-2-20	1700	2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emily Love

SIGNATURE of SAMPLER: Emily R. Jove

DATE Signed: 12/2/2020

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 09, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on December 02, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92509253001	**MW-28**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509253002	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

Sample: MW-28 **Lab ID: 92509253001** Collected: 12/02/20 11:10 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/08/20 03:12	12/08/20 03:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/08/20 03:12	12/08/20 03:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/08/20 03:12	12/08/20 03:12	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/08/20 03:12	12/08/20 03:12	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.6	%	70.0-130	1	12/08/20 03:12	12/08/20 03:12	615-59-8FID	
2,5-Dibromotoluene (PID)	87.1	%	70.0-130	1	12/08/20 03:12	12/08/20 03:12	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**58.8**	ug/L	5.0	1	12/08/20 01:57	12/09/20 16:46	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/07/20 17:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/07/20 17:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/07/20 17:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/07/20 17:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/07/20 17:39	75-25-2	M1
Bromomethane	ND	ug/L	5.0	1		12/07/20 17:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/07/20 17:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/07/20 17:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/07/20 17:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/07/20 17:39	56-23-5	M1
Chlorobenzene	ND	ug/L	0.50	1		12/07/20 17:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/07/20 17:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/07/20 17:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/07/20 17:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 17:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/07/20 17:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/07/20 17:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/07/20 17:39	124-48-1	M1
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/07/20 17:39	106-93-4	M1
Dibromomethane	ND	ug/L	0.50	1		12/07/20 17:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 17:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 17:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/07/20 17:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/07/20 17:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/07/20 17:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/07/20 17:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/07/20 17:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/07/20 17:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 17:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/07/20 17:39	142-28-9	M1
2,2-Dichloropropane	ND	ug/L	0.50	1		12/07/20 17:39	594-20-7	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

Sample: MW-28 **Lab ID: 92509253001** Collected: 12/02/20 11:10 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/07/20 17:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/07/20 17:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/07/20 17:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/07/20 17:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/07/20 17:39	87-68-3	M1
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/07/20 17:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/07/20 17:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/07/20 17:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/07/20 17:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/07/20 17:39	103-65-1	
Styrene	ND	ug/L	0.50	1		12/07/20 17:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 17:39	630-20-6	M1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/07/20 17:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/07/20 17:39	127-18-4	
Toluene	ND	ug/L	0.50	1		12/07/20 17:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 17:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/07/20 17:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/07/20 17:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/07/20 17:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/07/20 17:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/20 17:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/07/20 17:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 17:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/07/20 17:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/07/20 17:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/07/20 17:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/07/20 17:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/07/20 17:39	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1		12/07/20 17:39	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/07/20 17:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

Sample: Trip Blank **Lab ID: 92509253002** Collected: 12/02/20 00:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 15:24	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 15:24	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 15:24	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 15:24	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 15:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 15:24	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 15:24	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 15:24	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 15:24	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 15:24	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 15:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 15:24	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 15:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 15:24	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 15:24	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 15:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 15:24	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 15:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 15:24	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 15:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 15:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 15:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 15:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 15:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 15:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 15:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 15:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 15:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 15:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 15:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 15:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 15:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 15:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 15:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 15:24	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 15:24	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 15:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 15:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 15:24	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 15:24	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 15:24	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 15:24	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 15:24	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 15:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 15:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 15:24	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

Sample: Trip Blank **Lab ID: 92509253002** Collected: 12/02/20 00:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 15:24	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 15:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 15:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 15:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 15:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 15:24	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 15:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 15:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 15:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 15:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 15:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 15:24	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 15:24	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 15:24	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		12/08/20 15:24	17060-07-0	
4-Bromofluorobenzene (S)	107	%	70-130	1		12/08/20 15:24	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/08/20 15:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

QC Batch: 1587907
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92509253001

METHOD BLANK: R3601495-3 Matrix: Water
Associated Lab Samples: 92509253001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/07/20 16:43	
Aliphatic (C09-C12)	ug/L	ND	100	12/07/20 16:43	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/07/20 16:43	
Total VPH	ug/L	ND	100	12/07/20 16:43	
2,5-Dibromotoluene (FID)	%	81	70.0-130	12/07/20 16:43	
2,5-Dibromotoluene (PID)	%	73.2	70.0-130	12/07/20 16:43	

LABORATORY CONTROL SAMPLE & LCSD: R3601495-1 R3601495-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1120	95.8	93.3	70.0-130	2.64	25	
Aliphatic (C09-C12)	ug/L	1400	1280	1250	91.4	89.3	70.0-130	2.37	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	169	168	84.5	84.0	70.0-130	0.593	25	
Total VPH	ug/L	2800	2600	2540	92.9	90.7	70.0-130	2.33	25	
2,5-Dibromotoluene (FID)	%				87.7	84.7	70.0-130			
2,5-Dibromotoluene (PID)	%				81.9	78.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

QC Batch: 585194
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92509253001

METHOD BLANK: 3093302 Matrix: Water
Associated Lab Samples: 92509253001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/09/20 15:19	

LABORATORY CONTROL SAMPLE: 3093303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	245	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3093304 3093305

Parameter	Units	92508272001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	257	253	103	101	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

QC Batch: 584686
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92509253001

METHOD BLANK: 3090783 Matrix: Water
Associated Lab Samples: 92509253001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
1,1-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/07/20 12:38	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/07/20 12:38	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/07/20 12:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichloroethane	ug/L	ND	0.50	12/07/20 12:38	
1,2-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
1,3-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
2,2-Dichloropropane	ug/L	ND	0.50	12/07/20 12:38	
2-Chlorotoluene	ug/L	ND	0.50	12/07/20 12:38	
4-Chlorotoluene	ug/L	ND	0.50	12/07/20 12:38	
Benzene	ug/L	ND	0.50	12/07/20 12:38	
Bromobenzene	ug/L	ND	0.50	12/07/20 12:38	
Bromochloromethane	ug/L	ND	0.50	12/07/20 12:38	
Bromodichloromethane	ug/L	ND	0.50	12/07/20 12:38	
Bromoform	ug/L	ND	0.50	12/07/20 12:38	
Bromomethane	ug/L	ND	5.0	12/07/20 12:38	
Carbon tetrachloride	ug/L	ND	0.50	12/07/20 12:38	
Chlorobenzene	ug/L	ND	0.50	12/07/20 12:38	
Chloroethane	ug/L	ND	1.0	12/07/20 12:38	
Chloroform	ug/L	ND	0.50	12/07/20 12:38	
Chloromethane	ug/L	ND	1.0	12/07/20 12:38	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
Dibromochloromethane	ug/L	ND	0.50	12/07/20 12:38	
Dibromomethane	ug/L	ND	0.50	12/07/20 12:38	
Dichlorodifluoromethane	ug/L	ND	0.50	12/07/20 12:38	
Diisopropyl ether	ug/L	ND	0.50	12/07/20 12:38	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

METHOD BLANK: 3090783 Matrix: Water
Associated Lab Samples: 92509253001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/07/20 12:38	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/07/20 12:38	
m&p-Xylene	ug/L	ND	1.0	12/07/20 12:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/07/20 12:38	
Methylene Chloride	ug/L	ND	2.0	12/07/20 12:38	
n-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
n-Propylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Naphthalene	ug/L	ND	2.0	12/07/20 12:38	
o-Xylene	ug/L	ND	0.50	12/07/20 12:38	
sec-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Styrene	ug/L	ND	0.50	12/07/20 12:38	
tert-Butylbenzene	ug/L	ND	0.50	12/07/20 12:38	
Tetrachloroethene	ug/L	ND	0.50	12/07/20 12:38	
Toluene	ug/L	ND	0.50	12/07/20 12:38	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 12:38	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 12:38	
Trichloroethene	ug/L	ND	0.50	12/07/20 12:38	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/20 12:38	
Vinyl chloride	ug/L	ND	1.0	12/07/20 12:38	
1,2-Dichloroethane-d4 (S)	%	106	70-130	12/07/20 12:38	
4-Bromofluorobenzene (S)	%	104	70-130	12/07/20 12:38	
Toluene-d8 (S)	%	105	70-130	12/07/20 12:38	

LABORATORY CONTROL SAMPLE: 3090784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.3	115	60-140	
1,1,1-Trichloroethane	ug/L	50	60.1	120	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	100	60-140	
1,1,2-Trichloroethane	ug/L	50	53.2	106	60-140	
1,1-Dichloroethane	ug/L	50	56.1	112	60-140	
1,1-Dichloroethene	ug/L	50	57.2	114	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.8	98	60-140	
1,2,3-Trichloropropane	ug/L	50	49.1	98	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.8	94	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.0	94	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.3	115	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	60-140	
1,2-Dichlorobenzene	ug/L	50	48.9	98	60-140	
1,2-Dichloroethane	ug/L	50	52.1	104	60-140	
1,2-Dichloropropane	ug/L	50	55.4	111	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.3	99	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

LABORATORY CONTROL SAMPLE: 3090784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.4	97	60-140	
1,3-Dichloropropane	ug/L	50	51.0	102	60-140	
1,4-Dichlorobenzene	ug/L	50	47.5	95	60-140	
2,2-Dichloropropane	ug/L	50	65.6	131	60-140	
2-Chlorotoluene	ug/L	50	49.4	99	60-140	
4-Chlorotoluene	ug/L	50	48.1	96	60-140	
Benzene	ug/L	50	53.3	107	60-140	
Bromobenzene	ug/L	50	49.1	98	60-140	
Bromochloromethane	ug/L	50	53.9	108	60-140	
Bromodichloromethane	ug/L	50	52.0	104	60-140	
Bromoform	ug/L	50	59.3	119	60-140	
Bromomethane	ug/L	50	48.9	98	60-140	
Carbon tetrachloride	ug/L	50	58.2	116	60-140	
Chlorobenzene	ug/L	50	48.1	96	60-140	
Chloroethane	ug/L	50	46.6	93	60-140	
Chloroform	ug/L	50	55.2	110	60-140	
Chloromethane	ug/L	50	49.6	99	60-140	
cis-1,2-Dichloroethene	ug/L	50	54.2	108	60-140	
cis-1,3-Dichloropropene	ug/L	50	59.0	118	60-140	
Dibromochloromethane	ug/L	50	57.8	116	60-140	
Dibromomethane	ug/L	50	50.9	102	60-140	
Dichlorodifluoromethane	ug/L	50	46.5	93	60-140	
Diisopropyl ether	ug/L	50	55.7	111	60-140	
Ethylbenzene	ug/L	50	47.3	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.5	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.8	96	60-140	
m&p-Xylene	ug/L	100	95.6	96	60-140	
Methyl-tert-butyl ether	ug/L	50	55.4	111	60-140	
Methylene Chloride	ug/L	50	51.5	103	60-140	
n-Butylbenzene	ug/L	50	48.8	98	60-140	
n-Propylbenzene	ug/L	50	48.9	98	60-140	
Naphthalene	ug/L	50	48.4	97	60-140	
o-Xylene	ug/L	50	48.4	97	60-140	
sec-Butylbenzene	ug/L	50	48.3	97	60-140	
Styrene	ug/L	50	47.7	95	60-140	
tert-Butylbenzene	ug/L	50	42.1	84	60-140	
Tetrachloroethene	ug/L	50	46.8	94	60-140	
Toluene	ug/L	50	52.2	104	60-140	
trans-1,2-Dichloroethene	ug/L	50	56.2	112	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	60-140	
Trichloroethene	ug/L	50	52.3	105	60-140	
Trichlorofluoromethane	ug/L	50	50.3	101	60-140	
Vinyl chloride	ug/L	50	50.3	101	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090785 3090786

Parameter	Units	92509253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	26.8	30.1	134	150	60-140	12	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	26.6	27.3	133	136	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	24.4	26.7	122	133	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.6	25.7	118	129	60-140	9	
1,1-Dichloroethane	ug/L	ND	20	20	25.6	26.0	128	130	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	26.0	26.5	130	132	60-140	2	
1,1-Dichloropropene	ug/L	ND	20	20	26.3	26.8	132	134	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	24.3	26.1	122	131	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	20	20	24.5	27.6	123	138	60-140	12	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	24.4	26.2	122	131	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.0	24.6	115	123	60-140	7	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	27.4	27.1	137	136	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	26.4	28.7	132	144	60-140	9	M1
1,2-Dichlorobenzene	ug/L	ND	20	20	23.6	26.1	118	131	60-140	10	
1,2-Dichloroethane	ug/L	ND	20	20	22.9	23.7	115	118	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	25.2	27.3	126	136	60-140	8	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	24.1	25.4	120	127	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.5	25.5	118	127	60-140	8	
1,3-Dichloropropane	ug/L	ND	20	20	26.6	29.2	133	146	60-140	9	M1
1,4-Dichlorobenzene	ug/L	ND	20	20	22.8	25.0	114	125	60-140	9	
2,2-Dichloropropane	ug/L	ND	20	20	29.6	29.9	148	149	60-140	1	M1
2-Chlorotoluene	ug/L	ND	20	20	24.0	25.7	120	129	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	24.0	25.7	120	128	60-140	7	
Benzene	ug/L	ND	20	20	24.7	26.3	123	132	60-140	7	
Bromobenzene	ug/L	ND	20	20	23.5	25.7	117	129	60-140	9	
Bromochloromethane	ug/L	ND	20	20	24.2	24.6	121	123	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	22.7	24.8	114	124	60-140	9	
Bromoform	ug/L	ND	20	20	26.2	28.9	131	144	60-140	10	M1
Bromomethane	ug/L	ND	20	20	24.0	23.9	120	119	60-140	0	
Carbon tetrachloride	ug/L	ND	20	20	27.5	28.6	137	143	60-140	4	M1
Chlorobenzene	ug/L	ND	20	20	23.7	26.3	118	132	60-140	11	
Chloroethane	ug/L	ND	20	20	24.8	23.5	124	117	60-140	5	
Chloroform	ug/L	ND	20	20	24.8	24.4	124	122	60-140	2	
Chloromethane	ug/L	ND	20	20	21.0	20.9	105	105	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.4	25.4	122	127	60-140	4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	26.2	27.3	131	136	60-140	4	
Dibromochloromethane	ug/L	ND	20	20	27.2	30.5	136	153	60-140	11	M1
Dibromomethane	ug/L	ND	20	20	22.4	24.9	112	125	60-140	11	
Dichlorodifluoromethane	ug/L	ND	20	20	18.2	18.0	91	90	60-140	1	
Diisopropyl ether	ug/L	ND	20	20	23.4	24.3	117	122	60-140	4	
Ethylbenzene	ug/L	ND	20	20	23.9	26.5	120	133	60-140	10	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	28.8	30.7	144	154	60-140	6	M1
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.3	26.5	121	132	60-140	9	
m&p-Xylene	ug/L	ND	40	40	48.7	53.4	122	133	60-140	9	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.5	24.4	118	122	60-140	4	
Methylene Chloride	ug/L	ND	20	20	23.6	23.9	118	120	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3090785 3090786

Parameter	Units	92509253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	26.6	27.5	133	138	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	24.6	25.5	123	127	60-140	3	
Naphthalene	ug/L	ND	20	20	23.0	25.2	115	126	60-140	9	
o-Xylene	ug/L	ND	20	20	24.5	26.6	122	133	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	25.6	27.0	128	135	60-140	6	
Styrene	ug/L	ND	20	20	24.1	26.2	120	131	60-140	9	
tert-Butylbenzene	ug/L	ND	20	20	21.4	22.8	107	114	60-140	6	
Tetrachloroethene	ug/L	ND	20	20	23.0	24.9	115	124	60-140	8	
Toluene	ug/L	ND	20	20	22.8	24.6	114	123	60-140	8	
trans-1,2-Dichloroethene	ug/L	ND	20	20	26.1	26.1	130	130	60-140	0	
trans-1,3-Dichloropropene	ug/L	ND	20	20	25.8	27.9	129	140	60-140	8	
Trichloroethene	ug/L	ND	20	20	24.8	26.1	124	130	60-140	5	
Trichlorofluoromethane	ug/L	ND	20	20	23.1	23.5	116	117	60-140	1	
Vinyl chloride	ug/L	ND	20	20	22.1	21.9	111	110	60-140	1	
1,2-Dichloroethane-d4 (S)	%						102	103	70-130		
4-Bromofluorobenzene (S)	%						101	101	70-130		
Toluene-d8 (S)	%						98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

QC Batch: 585381
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92509253002

METHOD BLANK: 3094105 Matrix: Water
Associated Lab Samples: 92509253002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/08/20 15:06	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/08/20 15:06	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/08/20 15:06	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
1,3-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
2,2-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
2-Chlorotoluene	ug/L	ND	0.50	12/08/20 15:06	
4-Chlorotoluene	ug/L	ND	0.50	12/08/20 15:06	
Benzene	ug/L	ND	0.50	12/08/20 15:06	
Bromobenzene	ug/L	ND	0.50	12/08/20 15:06	
Bromochloromethane	ug/L	ND	0.50	12/08/20 15:06	
Bromodichloromethane	ug/L	ND	0.50	12/08/20 15:06	
Bromoform	ug/L	ND	0.50	12/08/20 15:06	
Bromomethane	ug/L	ND	5.0	12/08/20 15:06	
Carbon tetrachloride	ug/L	ND	0.50	12/08/20 15:06	
Chlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
Chloroethane	ug/L	ND	1.0	12/08/20 15:06	
Chloroform	ug/L	ND	0.50	12/08/20 15:06	
Chloromethane	ug/L	ND	1.0	12/08/20 15:06	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
Dibromochloromethane	ug/L	ND	0.50	12/08/20 15:06	
Dibromomethane	ug/L	ND	0.50	12/08/20 15:06	
Dichlorodifluoromethane	ug/L	ND	0.50	12/08/20 15:06	
Diisopropyl ether	ug/L	ND	0.50	12/08/20 15:06	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

METHOD BLANK: 3094105 Matrix: Water
Associated Lab Samples: 92509253002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/08/20 15:06	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/08/20 15:06	
m&p-Xylene	ug/L	ND	1.0	12/08/20 15:06	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/08/20 15:06	
Methylene Chloride	ug/L	ND	2.0	12/08/20 15:06	
n-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
n-Propylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Naphthalene	ug/L	ND	2.0	12/08/20 15:06	
o-Xylene	ug/L	ND	0.50	12/08/20 15:06	
sec-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Styrene	ug/L	ND	0.50	12/08/20 15:06	
tert-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Tetrachloroethene	ug/L	ND	0.50	12/08/20 15:06	
Toluene	ug/L	ND	0.50	12/08/20 15:06	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
Trichloroethene	ug/L	ND	0.50	12/08/20 15:06	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/20 15:06	
Vinyl chloride	ug/L	ND	1.0	12/08/20 15:06	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/08/20 15:06	
4-Bromofluorobenzene (S)	%	103	70-130	12/08/20 15:06	
Toluene-d8 (S)	%	102	70-130	12/08/20 15:06	

LABORATORY CONTROL SAMPLE: 3094106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.6	117	60-140	
1,1,1-Trichloroethane	ug/L	50	49.3	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	60-140	
1,1,2-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1-Dichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethene	ug/L	50	47.6	95	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.0	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.2	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.5	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.9	114	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	60-140	
1,2-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,2-Dichloroethane	ug/L	50	44.6	89	60-140	
1,2-Dichloropropane	ug/L	50	48.2	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.7	97	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

LABORATORY CONTROL SAMPLE: 3094106

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	54.0	108	60-140	
1,4-Dichlorobenzene	ug/L	50	48.1	96	60-140	
2,2-Dichloropropane	ug/L	50	52.9	106	60-140	
2-Chlorotoluene	ug/L	50	49.5	99	60-140	
4-Chlorotoluene	ug/L	50	48.7	97	60-140	
Benzene	ug/L	50	46.7	93	60-140	
Bromobenzene	ug/L	50	49.4	99	60-140	
Bromochloromethane	ug/L	50	47.2	94	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	56.0	112	60-140	
Bromomethane	ug/L	50	43.3	87	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	48.7	97	60-140	
Chloroethane	ug/L	50	41.3	83	60-140	
Chloroform	ug/L	50	46.2	92	60-140	
Chloromethane	ug/L	50	41.8	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	60-140	
Dibromochloromethane	ug/L	50	56.6	113	60-140	
Dibromomethane	ug/L	50	46.3	93	60-140	
Dichlorodifluoromethane	ug/L	50	39.4	79	60-140	
Diisopropyl ether	ug/L	50	46.9	94	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.4	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.6	97	60-140	
m&p-Xylene	ug/L	100	98.0	98	60-140	
Methyl-tert-butyl ether	ug/L	50	46.8	94	60-140	
Methylene Chloride	ug/L	50	43.9	88	60-140	
n-Butylbenzene	ug/L	50	50.2	100	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	49.1	98	60-140	
sec-Butylbenzene	ug/L	50	49.2	98	60-140	
Styrene	ug/L	50	49.1	98	60-140	
tert-Butylbenzene	ug/L	50	41.9	84	60-140	
Tetrachloroethene	ug/L	50	45.6	91	60-140	
Toluene	ug/L	50	44.9	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	60-140	
Trichloroethene	ug/L	50	45.4	91	60-140	
Trichlorofluoromethane	ug/L	50	41.6	83	60-140	
Vinyl chloride	ug/L	50	42.6	85	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3095116 3095117

Parameter	Units	92509251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	500	518	125	130	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	400	400	448	465	112	116	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	446	450	112	112	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	400	400	416	435	104	109	60-140	5	
1,1-Dichloroethane	ug/L	ND	400	400	424	440	106	110	60-140	4	
1,1-Dichloroethene	ug/L	ND	400	400	430	454	108	114	60-140	5	
1,1-Dichloropropene	ug/L	ND	400	400	447	462	112	116	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	400	400	442	460	111	115	60-140	4	
1,2,3-Trichloropropane	ug/L	ND	400	400	446	448	112	112	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	400	400	426	444	107	111	60-140	4	
1,2,4-Trimethylbenzene	ug/L	270	400	400	713	727	111	114	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	488	464	122	116	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	458	474	115	118	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	400	400	442	460	111	115	60-140	4	
1,2-Dichloroethane	ug/L	ND	400	400	383	409	96	102	60-140	6	
1,2-Dichloropropane	ug/L	ND	400	400	437	453	109	113	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	400	400	522	535	131	134	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	400	400	441	458	110	114	60-140	4	
1,3-Dichloropropane	ug/L	ND	400	400	464	485	116	121	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	400	400	438	453	110	113	60-140	3	
2,2-Dichloropropane	ug/L	ND	400	400	489	511	122	128	60-140	4	
2-Chlorotoluene	ug/L	ND	400	400	459	467	115	117	60-140	2	
4-Chlorotoluene	ug/L	ND	400	400	449	453	112	113	60-140	1	
Benzene	ug/L	3730	400	400	3980	4140	62	102	60-140	4	E
Bromobenzene	ug/L	ND	400	400	447	461	112	115	60-140	3	
Bromochloromethane	ug/L	ND	400	400	399	432	100	108	60-140	8	
Bromodichloromethane	ug/L	ND	400	400	399	418	100	104	60-140	5	
Bromoform	ug/L	ND	400	400	456	473	114	118	60-140	3	
Bromomethane	ug/L	ND	400	400	397	421	99	105	60-140	6	
Carbon tetrachloride	ug/L	ND	400	400	463	477	116	119	60-140	3	
Chlorobenzene	ug/L	ND	400	400	442	453	110	113	60-140	3	
Chloroethane	ug/L	ND	400	400	388	435	97	109	60-140	11	
Chloroform	ug/L	ND	400	400	412	435	103	109	60-140	5	
Chloromethane	ug/L	ND	400	400	371	384	93	96	60-140	3	
cis-1,2-Dichloroethene	ug/L	ND	400	400	421	436	105	109	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	400	400	440	467	110	117	60-140	6	
Dibromochloromethane	ug/L	ND	400	400	477	505	119	126	60-140	6	
Dibromomethane	ug/L	ND	400	400	399	413	100	103	60-140	3	
Dichlorodifluoromethane	ug/L	ND	400	400	298	319	74	80	60-140	7	
Diisopropyl ether	ug/L	482	400	400	888	922	102	110	60-140	4	
Ethylbenzene	ug/L	406	400	400	829	858	106	113	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	400	400	522	523	131	131	60-140	0	
Isopropylbenzene (Cumene)	ug/L	10.3	400	400	461	466	113	114	60-140	1	
m&p-Xylene	ug/L	1950	800	800	2730	2860	98	113	60-140	4	
Methyl-tert-butyl ether	ug/L	287	400	400	691	714	101	107	60-140	3	
Methylene Chloride	ug/L	ND	400	400	402	413	96	98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3095116 3095117

Parameter	Units	92509251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	400	400	487	496	122	124	60-140	2	
n-Propylbenzene	ug/L	ND	400	400	476	489	119	122	60-140	3	
Naphthalene	ug/L	68.3	400	400	513	514	111	111	60-140	0	
o-Xylene	ug/L	962	400	400	1360	1420	99	115	60-140	5	
sec-Butylbenzene	ug/L	ND	400	400	466	484	117	121	60-140	4	
Styrene	ug/L	ND	400	400	433	457	108	114	60-140	5	
tert-Butylbenzene	ug/L	ND	400	400	399	410	100	103	60-140	3	
Tetrachloroethene	ug/L	ND	400	400	423	433	106	108	60-140	2	
Toluene	ug/L	3760	400	400	3890	3990	32	57	60-140	3	M1
trans-1,2-Dichloroethene	ug/L	ND	400	400	430	447	108	112	60-140	4	
trans-1,3-Dichloropropene	ug/L	ND	400	400	446	447	111	112	60-140	0	
Trichloroethene	ug/L	ND	400	400	425	435	106	109	60-140	2	
Trichlorofluoromethane	ug/L	ND	400	400	389	409	97	102	60-140	5	
Vinyl chloride	ug/L	ND	400	400	345	363	86	91	60-140	5	
1,2-Dichloroethane-d4 (S)	%						104	102	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509253

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92509253001	**MW-28**	MADEPV	1587907	MADEP VPH	1587907
92509253001	**MW-28**	EPA 3010A	585194	EPA 6010D	585203
92509253001	**MW-28**	SM 6200B	584686		
92509253002	**Trip Blank**	SM 6200B	585381		

Pace Analytical	Sample Condition Upon Receipt(SCUR)	Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project # WO# : 92509253

92509253

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: 12/3/20 LDH

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: 2.2 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 2.1

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

USDA Regulated Soil (☒ N/A, water sample)

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

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

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

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

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

Project # **WO#: 92509253**

PM: NMG Due Date: 12/09/20

CLIENT: 92-AECOM CHA

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)	VJGK (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)	DG8U-40 mL Amber Unpreserved vials (N/A)
1						12										1												
2																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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A
Required Client Information:

Company: AECOM
Address: 6000 Fairview Road
Suite 200, Charlotte, NC 28226
Email:
Phone: (704)522-0330 Fax
Requested Due Date:

Section B
Required Project Information:

Report To: Andrew Wreschnig
Copy To:
Purchase Order #:
Project Name: Colonial Pipeline
Project #:

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: nicole.gasiorowski@pacelabs.com,
Pace Profile #: 12518-3

Regulatory Agency

State / Location
NC

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	92509253
1	MW-28	WT	G			12/2	1110		8			X	X						X	X	X			001
2	Trip Blank						Lab	Provided														X		002
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Emily R. Love/AECOM	12/2/20	1700	MDG Pace HVL	12-2-20	1700	2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emily Love
SIGNATURE of SAMPLER: Emily R. Love
DATE Signed: 12/2/2020

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 09, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on December 02, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92509255001	**MW-42**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509255002	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

Sample: MW-42 **Lab ID: 92509255001** Collected: 12/02/20 15:40 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/08/20 02:38	12/08/20 02:38		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/08/20 02:38	12/08/20 02:38		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/08/20 02:38	12/08/20 02:38	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/08/20 02:38	12/08/20 02:38	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.2	%	70.0-130	1	12/08/20 02:38	12/08/20 02:38	615-59-8FID	
2,5-Dibromotoluene (PID)	77.0	%	70.0-130	1	12/08/20 02:38	12/08/20 02:38	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	12/08/20 01:57	12/09/20 16:49	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 01:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 01:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 01:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 01:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 01:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 01:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 01:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 01:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 01:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 01:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 01:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 01:19	75-00-3	
Chloroform	**10.6**	ug/L	0.50	1		12/08/20 01:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 01:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 01:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 01:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 01:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 01:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 01:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 01:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 01:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 01:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 01:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 01:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 01:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 01:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 01:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 01:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 01:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 01:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 01:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 01:19	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

Sample: MW-42 **Lab ID: 92509255001** Collected: 12/02/20 15:40 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 01:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 01:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 01:19	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 01:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 01:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 01:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 01:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 01:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 01:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 01:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 01:19	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 01:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 01:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 01:19	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 01:19	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 01:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 01:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 01:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 01:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 01:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 01:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 01:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 01:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 01:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 01:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 01:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 01:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 01:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		12/08/20 01:19	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/08/20 01:19	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/08/20 01:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

Sample: Trip Blank **Lab ID: 92509255002** Collected: 12/02/20 00:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 15:42	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 15:42	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 15:42	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 15:42	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 15:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 15:42	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 15:42	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 15:42	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 15:42	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 15:42	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 15:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 15:42	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 15:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 15:42	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 15:42	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 15:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 15:42	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 15:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 15:42	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 15:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 15:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 15:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 15:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 15:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 15:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 15:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 15:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 15:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 15:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 15:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 15:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 15:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 15:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 15:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 15:42	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 15:42	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 15:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 15:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 15:42	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 15:42	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 15:42	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 15:42	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 15:42	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 15:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 15:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 15:42	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

Sample: Trip Blank **Lab ID: 92509255002** Collected: 12/02/20 00:00 Received: 12/02/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 15:42	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 15:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 15:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 15:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 15:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 15:42	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 15:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 15:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 15:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 15:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 15:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 15:42	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 15:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 15:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		12/08/20 15:42	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/08/20 15:42	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/08/20 15:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

QC Batch: 1587907
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92509255001

METHOD BLANK: R3601495-3 Matrix: Water
Associated Lab Samples: 92509255001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/07/20 16:43	
Aliphatic (C09-C12)	ug/L	ND	100	12/07/20 16:43	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/07/20 16:43	
Total VPH	ug/L	ND	100	12/07/20 16:43	
2,5-Dibromotoluene (FID)	%	81	70.0-130	12/07/20 16:43	
2,5-Dibromotoluene (PID)	%	73.2	70.0-130	12/07/20 16:43	

LABORATORY CONTROL SAMPLE & LCSD: R3601495-1 R3601495-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1120	95.8	93.3	70.0-130	2.64	25	
Aliphatic (C09-C12)	ug/L	1400	1280	1250	91.4	89.3	70.0-130	2.37	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	169	168	84.5	84.0	70.0-130	0.593	25	
Total VPH	ug/L	2800	2600	2540	92.9	90.7	70.0-130	2.33	25	
2,5-Dibromotoluene (FID)	%				87.7	84.7	70.0-130			
2,5-Dibromotoluene (PID)	%				81.9	78.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

QC Batch: 585194
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92509255001

METHOD BLANK: 3093302 Matrix: Water
Associated Lab Samples: 92509255001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/09/20 15:19	

LABORATORY CONTROL SAMPLE: 3093303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	245	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3093304 3093305

Parameter	Units	92508272001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	257	253	103	101	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

QC Batch: 585040
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92509255001

METHOD BLANK: 3092613 Matrix: Water
Associated Lab Samples: 92509255001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/07/20 23:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/07/20 23:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/07/20 23:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
1,3-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
2,2-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
2-Chlorotoluene	ug/L	ND	0.50	12/07/20 23:15	
4-Chlorotoluene	ug/L	ND	0.50	12/07/20 23:15	
Benzene	ug/L	ND	0.50	12/07/20 23:15	
Bromobenzene	ug/L	ND	0.50	12/07/20 23:15	
Bromochloromethane	ug/L	ND	0.50	12/07/20 23:15	
Bromodichloromethane	ug/L	ND	0.50	12/07/20 23:15	
Bromoform	ug/L	ND	0.50	12/07/20 23:15	
Bromomethane	ug/L	ND	5.0	12/07/20 23:15	
Carbon tetrachloride	ug/L	ND	0.50	12/07/20 23:15	
Chlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
Chloroethane	ug/L	ND	1.0	12/07/20 23:15	
Chloroform	ug/L	ND	0.50	12/07/20 23:15	
Chloromethane	ug/L	ND	1.0	12/07/20 23:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
Dibromochloromethane	ug/L	ND	0.50	12/07/20 23:15	
Dibromomethane	ug/L	ND	0.50	12/07/20 23:15	
Dichlorodifluoromethane	ug/L	ND	0.50	12/07/20 23:15	
Diisopropyl ether	ug/L	ND	0.50	12/07/20 23:15	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

METHOD BLANK: 3092613 Matrix: Water
Associated Lab Samples: 92509255001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/07/20 23:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/07/20 23:15	
m&p-Xylene	ug/L	ND	1.0	12/07/20 23:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/07/20 23:15	
Methylene Chloride	ug/L	ND	2.0	12/07/20 23:15	
n-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
n-Propylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Naphthalene	ug/L	ND	2.0	12/07/20 23:15	
o-Xylene	ug/L	ND	0.50	12/07/20 23:15	
sec-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Styrene	ug/L	ND	0.50	12/07/20 23:15	
tert-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Tetrachloroethene	ug/L	ND	0.50	12/07/20 23:15	
Toluene	ug/L	ND	0.50	12/07/20 23:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
Trichloroethene	ug/L	ND	0.50	12/07/20 23:15	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/20 23:15	
Vinyl chloride	ug/L	ND	1.0	12/07/20 23:15	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/07/20 23:15	
4-Bromofluorobenzene (S)	%	102	70-130	12/07/20 23:15	
Toluene-d8 (S)	%	101	70-130	12/07/20 23:15	

LABORATORY CONTROL SAMPLE: 3092614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	59.2	118	60-140	
1,1,1-Trichloroethane	ug/L	50	52.4	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,2-Trichloroethane	ug/L	50	49.2	98	60-140	
1,1-Dichloroethane	ug/L	50	49.7	99	60-140	
1,1-Dichloroethene	ug/L	50	49.5	99	60-140	
1,1-Dichloropropene	ug/L	50	51.9	104	60-140	
1,2,3-Trichlorobenzene	ug/L	50	51.4	103	60-140	
1,2,3-Trichloropropane	ug/L	50	51.1	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.0	112	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.7	111	60-140	
1,2-Dichlorobenzene	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane	ug/L	50	46.8	94	60-140	
1,2-Dichloropropane	ug/L	50	52.2	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.8	102	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

LABORATORY CONTROL SAMPLE: 3092614

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	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	56.3	113	60-140	
2-Chlorotoluene	ug/L	50	51.8	104	60-140	
4-Chlorotoluene	ug/L	50	49.9	100	60-140	
Benzene	ug/L	50	49.6	99	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	49.3	99	60-140	
Bromodichloromethane	ug/L	50	47.3	95	60-140	
Bromoform	ug/L	50	57.9	116	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	53.0	106	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	41.9	84	60-140	
Chloroform	ug/L	50	47.8	96	60-140	
Chloromethane	ug/L	50	42.2	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	60-140	
Dibromochloromethane	ug/L	50	59.0	118	60-140	
Dibromomethane	ug/L	50	48.8	98	60-140	
Dichlorodifluoromethane	ug/L	50	40.1	80	60-140	
Diisopropyl ether	ug/L	50	49.1	98	60-140	
Ethylbenzene	ug/L	50	50.1	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	53.4	107	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	49.2	98	60-140	
Methylene Chloride	ug/L	50	46.7	93	60-140	
n-Butylbenzene	ug/L	50	52.9	106	60-140	
n-Propylbenzene	ug/L	50	51.2	102	60-140	
Naphthalene	ug/L	50	51.3	103	60-140	
o-Xylene	ug/L	50	51.7	103	60-140	
sec-Butylbenzene	ug/L	50	50.8	102	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	43.7	87	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.0	110	60-140	
Trichloroethene	ug/L	50	48.6	97	60-140	
Trichlorofluoromethane	ug/L	50	44.9	90	60-140	
Vinyl chloride	ug/L	50	44.3	89	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092615 3092616

Parameter	Units	92509560004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	28.4	23.9	142	119	60-140	17	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	25.6	22.3	128	111	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	24.9	21.9	125	109	60-140	13	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	20.5	120	102	60-140	16	
1,1-Dichloroethane	ug/L	ND	20	20	25.2	21.6	126	108	60-140	16	
1,1-Dichloroethene	ug/L	ND	20	20	25.2	21.4	126	107	60-140	16	
1,1-Dichloropropene	ug/L	ND	20	20	25.1	21.8	126	109	60-140	14	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.5	20.8	118	104	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	20	20	25.7	21.6	129	108	60-140	18	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.5	20.6	112	103	60-140	9	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.1	20.7	110	103	60-140	6	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	27.6	23.6	138	118	60-140	16	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	27.0	23.1	135	116	60-140	15	
1,2-Dichlorobenzene	ug/L	ND	20	20	23.0	20.9	115	105	60-140	9	
1,2-Dichloroethane	ug/L	ND	20	20	22.3	19.7	112	98	60-140	13	
1,2-Dichloropropane	ug/L	ND	20	20	25.7	21.9	128	109	60-140	16	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	21.1	116	106	60-140	10	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.3	21.1	117	105	60-140	10	
1,3-Dichloropropane	ug/L	ND	20	20	27.3	23.8	137	119	60-140	14	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.6	20.1	113	101	60-140	12	
2,2-Dichloropropane	ug/L	ND	20	20	29.0	23.9	145	120	60-140	19	M1
2-Chlorotoluene	ug/L	ND	20	20	23.8	21.7	119	108	60-140	9	
4-Chlorotoluene	ug/L	ND	20	20	23.1	20.9	115	105	60-140	10	
Benzene	ug/L	ND	20	20	25.1	21.7	125	108	60-140	15	
Bromobenzene	ug/L	ND	20	20	23.1	21.2	115	106	60-140	8	
Bromochloromethane	ug/L	ND	20	20	23.5	21.3	118	106	60-140	10	
Bromodichloromethane	ug/L	ND	20	20	23.5	20.2	118	101	60-140	15	
Bromoform	ug/L	ND	20	20	26.3	22.9	131	114	60-140	14	
Bromomethane	ug/L	ND	20	20	23.3	19.3	116	96	60-140	19	
Carbon tetrachloride	ug/L	ND	20	20	27.0	23.5	135	118	60-140	14	
Chlorobenzene	ug/L	ND	20	20	24.4	20.9	122	105	60-140	15	
Chloroethane	ug/L	ND	20	20	23.6	20.9	118	105	60-140	12	
Chloroform	ug/L	2.9	20	20	26.8	23.9	119	105	60-140	12	
Chloromethane	ug/L	ND	20	20	19.7	17.2	99	86	60-140	14	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.9	20.7	119	104	60-140	14	
cis-1,3-Dichloropropene	ug/L	ND	20	20	26.2	22.5	131	112	60-140	15	
Dibromochloromethane	ug/L	ND	20	20	28.0	23.1	140	116	60-140	19	
Dibromomethane	ug/L	ND	20	20	23.9	20.5	120	102	60-140	16	
Dichlorodifluoromethane	ug/L	ND	20	20	16.7	14.4	83	72	60-140	15	
Diisopropyl ether	ug/L	ND	20	20	22.8	19.7	114	99	60-140	14	
Ethylbenzene	ug/L	ND	20	20	24.3	21.3	121	107	60-140	13	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	26.6	24.6	133	123	60-140	8	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.3	21.4	122	107	60-140	13	
m&p-Xylene	ug/L	ND	40	40	49.4	42.9	124	107	60-140	14	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.8	20.0	114	100	60-140	13	
Methylene Chloride	ug/L	ND	20	20	22.8	20.0	114	100	60-140	13	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092615 3092616

Parameter	Units	92509560004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	23.8	22.2	119	111	60-140	7	
n-Propylbenzene	ug/L	ND	20	20	23.3	21.3	117	107	60-140	9	
Naphthalene	ug/L	ND	20	20	22.9	21.0	115	105	60-140	9	
o-Xylene	ug/L	ND	20	20	23.9	21.9	120	109	60-140	9	
sec-Butylbenzene	ug/L	ND	20	20	23.8	21.9	119	109	60-140	8	
Styrene	ug/L	ND	20	20	24.0	21.1	120	105	60-140	13	
tert-Butylbenzene	ug/L	ND	20	20	20.7	18.5	104	92	60-140	12	
Tetrachloroethene	ug/L	ND	20	20	22.0	20.3	110	102	60-140	8	
Toluene	ug/L	ND	20	20	23.0	20.1	115	100	60-140	13	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.8	21.7	124	108	60-140	13	
trans-1,3-Dichloropropene	ug/L	ND	20	20	26.0	22.1	130	111	60-140	16	
Trichloroethene	ug/L	ND	20	20	23.7	21.2	118	106	60-140	11	
Trichlorofluoromethane	ug/L	ND	20	20	22.3	19.8	111	99	60-140	12	
Vinyl chloride	ug/L	ND	20	20	20.7	18.1	104	90	60-140	14	
1,2-Dichloroethane-d4 (S)	%						101	100	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

QC Batch: 585381
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92509255002

METHOD BLANK: 3094105 Matrix: Water
Associated Lab Samples: 92509255002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/08/20 15:06	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/08/20 15:06	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/08/20 15:06	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
1,3-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
2,2-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
2-Chlorotoluene	ug/L	ND	0.50	12/08/20 15:06	
4-Chlorotoluene	ug/L	ND	0.50	12/08/20 15:06	
Benzene	ug/L	ND	0.50	12/08/20 15:06	
Bromobenzene	ug/L	ND	0.50	12/08/20 15:06	
Bromochloromethane	ug/L	ND	0.50	12/08/20 15:06	
Bromodichloromethane	ug/L	ND	0.50	12/08/20 15:06	
Bromoform	ug/L	ND	0.50	12/08/20 15:06	
Bromomethane	ug/L	ND	5.0	12/08/20 15:06	
Carbon tetrachloride	ug/L	ND	0.50	12/08/20 15:06	
Chlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
Chloroethane	ug/L	ND	1.0	12/08/20 15:06	
Chloroform	ug/L	ND	0.50	12/08/20 15:06	
Chloromethane	ug/L	ND	1.0	12/08/20 15:06	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
Dibromochloromethane	ug/L	ND	0.50	12/08/20 15:06	
Dibromomethane	ug/L	ND	0.50	12/08/20 15:06	
Dichlorodifluoromethane	ug/L	ND	0.50	12/08/20 15:06	
Diisopropyl ether	ug/L	ND	0.50	12/08/20 15:06	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

METHOD BLANK: 3094105 Matrix: Water
Associated Lab Samples: 92509255002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/08/20 15:06	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/08/20 15:06	
m&p-Xylene	ug/L	ND	1.0	12/08/20 15:06	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/08/20 15:06	
Methylene Chloride	ug/L	ND	2.0	12/08/20 15:06	
n-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
n-Propylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Naphthalene	ug/L	ND	2.0	12/08/20 15:06	
o-Xylene	ug/L	ND	0.50	12/08/20 15:06	
sec-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Styrene	ug/L	ND	0.50	12/08/20 15:06	
tert-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Tetrachloroethene	ug/L	ND	0.50	12/08/20 15:06	
Toluene	ug/L	ND	0.50	12/08/20 15:06	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
Trichloroethene	ug/L	ND	0.50	12/08/20 15:06	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/20 15:06	
Vinyl chloride	ug/L	ND	1.0	12/08/20 15:06	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/08/20 15:06	
4-Bromofluorobenzene (S)	%	103	70-130	12/08/20 15:06	
Toluene-d8 (S)	%	102	70-130	12/08/20 15:06	

LABORATORY CONTROL SAMPLE: 3094106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.6	117	60-140	
1,1,1-Trichloroethane	ug/L	50	49.3	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	60-140	
1,1,2-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1-Dichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethene	ug/L	50	47.6	95	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.0	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.2	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.5	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.9	114	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	60-140	
1,2-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,2-Dichloroethane	ug/L	50	44.6	89	60-140	
1,2-Dichloropropane	ug/L	50	48.2	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.7	97	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

LABORATORY CONTROL SAMPLE: 3094106

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	54.0	108	60-140	
1,4-Dichlorobenzene	ug/L	50	48.1	96	60-140	
2,2-Dichloropropane	ug/L	50	52.9	106	60-140	
2-Chlorotoluene	ug/L	50	49.5	99	60-140	
4-Chlorotoluene	ug/L	50	48.7	97	60-140	
Benzene	ug/L	50	46.7	93	60-140	
Bromobenzene	ug/L	50	49.4	99	60-140	
Bromochloromethane	ug/L	50	47.2	94	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	56.0	112	60-140	
Bromomethane	ug/L	50	43.3	87	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	48.7	97	60-140	
Chloroethane	ug/L	50	41.3	83	60-140	
Chloroform	ug/L	50	46.2	92	60-140	
Chloromethane	ug/L	50	41.8	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	60-140	
Dibromochloromethane	ug/L	50	56.6	113	60-140	
Dibromomethane	ug/L	50	46.3	93	60-140	
Dichlorodifluoromethane	ug/L	50	39.4	79	60-140	
Diisopropyl ether	ug/L	50	46.9	94	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.4	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.6	97	60-140	
m&p-Xylene	ug/L	100	98.0	98	60-140	
Methyl-tert-butyl ether	ug/L	50	46.8	94	60-140	
Methylene Chloride	ug/L	50	43.9	88	60-140	
n-Butylbenzene	ug/L	50	50.2	100	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	49.1	98	60-140	
sec-Butylbenzene	ug/L	50	49.2	98	60-140	
Styrene	ug/L	50	49.1	98	60-140	
tert-Butylbenzene	ug/L	50	41.9	84	60-140	
Tetrachloroethene	ug/L	50	45.6	91	60-140	
Toluene	ug/L	50	44.9	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	60-140	
Trichloroethene	ug/L	50	45.4	91	60-140	
Trichlorofluoromethane	ug/L	50	41.6	83	60-140	
Vinyl chloride	ug/L	50	42.6	85	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3095116 3095117

Parameter	Units	92509251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	500	518	125	130	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	400	400	448	465	112	116	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	446	450	112	112	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	400	400	416	435	104	109	60-140	5	
1,1-Dichloroethane	ug/L	ND	400	400	424	440	106	110	60-140	4	
1,1-Dichloroethene	ug/L	ND	400	400	430	454	108	114	60-140	5	
1,1-Dichloropropene	ug/L	ND	400	400	447	462	112	116	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	400	400	442	460	111	115	60-140	4	
1,2,3-Trichloropropane	ug/L	ND	400	400	446	448	112	112	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	400	400	426	444	107	111	60-140	4	
1,2,4-Trimethylbenzene	ug/L	270	400	400	713	727	111	114	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	488	464	122	116	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	458	474	115	118	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	400	400	442	460	111	115	60-140	4	
1,2-Dichloroethane	ug/L	ND	400	400	383	409	96	102	60-140	6	
1,2-Dichloropropane	ug/L	ND	400	400	437	453	109	113	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	400	400	522	535	131	134	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	400	400	441	458	110	114	60-140	4	
1,3-Dichloropropane	ug/L	ND	400	400	464	485	116	121	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	400	400	438	453	110	113	60-140	3	
2,2-Dichloropropane	ug/L	ND	400	400	489	511	122	128	60-140	4	
2-Chlorotoluene	ug/L	ND	400	400	459	467	115	117	60-140	2	
4-Chlorotoluene	ug/L	ND	400	400	449	453	112	113	60-140	1	
Benzene	ug/L	3730	400	400	3980	4140	62	102	60-140	4	E
Bromobenzene	ug/L	ND	400	400	447	461	112	115	60-140	3	
Bromochloromethane	ug/L	ND	400	400	399	432	100	108	60-140	8	
Bromodichloromethane	ug/L	ND	400	400	399	418	100	104	60-140	5	
Bromoform	ug/L	ND	400	400	456	473	114	118	60-140	3	
Bromomethane	ug/L	ND	400	400	397	421	99	105	60-140	6	
Carbon tetrachloride	ug/L	ND	400	400	463	477	116	119	60-140	3	
Chlorobenzene	ug/L	ND	400	400	442	453	110	113	60-140	3	
Chloroethane	ug/L	ND	400	400	388	435	97	109	60-140	11	
Chloroform	ug/L	ND	400	400	412	435	103	109	60-140	5	
Chloromethane	ug/L	ND	400	400	371	384	93	96	60-140	3	
cis-1,2-Dichloroethene	ug/L	ND	400	400	421	436	105	109	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	400	400	440	467	110	117	60-140	6	
Dibromochloromethane	ug/L	ND	400	400	477	505	119	126	60-140	6	
Dibromomethane	ug/L	ND	400	400	399	413	100	103	60-140	3	
Dichlorodifluoromethane	ug/L	ND	400	400	298	319	74	80	60-140	7	
Diisopropyl ether	ug/L	482	400	400	888	922	102	110	60-140	4	
Ethylbenzene	ug/L	406	400	400	829	858	106	113	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	400	400	522	523	131	131	60-140	0	
Isopropylbenzene (Cumene)	ug/L	10.3	400	400	461	466	113	114	60-140	1	
m&p-Xylene	ug/L	1950	800	800	2730	2860	98	113	60-140	4	
Methyl-tert-butyl ether	ug/L	287	400	400	691	714	101	107	60-140	3	
Methylene Chloride	ug/L	ND	400	400	402	413	96	98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3095116 3095117

Parameter	Units	92509251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	400	400	487	496	122	124	60-140	2	
n-Propylbenzene	ug/L	ND	400	400	476	489	119	122	60-140	3	
Naphthalene	ug/L	68.3	400	400	513	514	111	111	60-140	0	
o-Xylene	ug/L	962	400	400	1360	1420	99	115	60-140	5	
sec-Butylbenzene	ug/L	ND	400	400	466	484	117	121	60-140	4	
Styrene	ug/L	ND	400	400	433	457	108	114	60-140	5	
tert-Butylbenzene	ug/L	ND	400	400	399	410	100	103	60-140	3	
Tetrachloroethene	ug/L	ND	400	400	423	433	106	108	60-140	2	
Toluene	ug/L	3760	400	400	3890	3990	32	57	60-140	3	M1
trans-1,2-Dichloroethene	ug/L	ND	400	400	430	447	108	112	60-140	4	
trans-1,3-Dichloropropene	ug/L	ND	400	400	446	447	111	112	60-140	0	
Trichloroethene	ug/L	ND	400	400	425	435	106	109	60-140	2	
Trichlorofluoromethane	ug/L	ND	400	400	389	409	97	102	60-140	5	
Vinyl chloride	ug/L	ND	400	400	345	363	86	91	60-140	5	
1,2-Dichloroethane-d4 (S)	%						104	102	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (12/2)
Pace Project No.: 92509255

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92509255001	**MW-42**	MADEPV	1587907	MADEP VPH	1587907
92509255001	**MW-42**	EPA 3010A	585194	EPA 6010D	585203
92509255001	**MW-42**	SM 6200B	585040		
92509255002	**Trip Blank**	SM 6200B	585381		

Pace Analytical	Sample Condition Upon Receipt(SCUR)	Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project # WO# : 92509255

92509255

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: 12/3/20 LDH

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: 0.4 Correction Factor: Add/Subtract (°C) -0.1 Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 0.3 ☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)

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

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

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

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

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

Project # **WO#: 92509255**

PM: NMG Due Date: 12/09/20

CLIENT: 92-AECOM CHA

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)	VG9H (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										1											
2																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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company: AECOM
Address: 6000 Fairview Road
Suite 200, Charlotte, NC 28226
Email:
Phone: (704)522-0330 Fax
Requested Due Date:

Section B — Required Project Information:

Report To: Andrew Wreschnig
Copy To:
Purchase Order #:
Project Name: Colonial Pipeline
Project #:

Section C — Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: nicole.gasiorowski@pacelabs.com,
Pace Profile #: 12518-3

Regulatory Agency:
State / Location: NC

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	92509255
1	MW-A2	WT	G			12/2	1540		8			X	X						X	X	X			001
2	Trip Blank	WT						Lab Provided													X	X		002
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Emily R-Love/AECOM	12/2/20	1200	MDG/Pace HVL	12.2020	1700	0.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emily Love

SIGNATURE of SAMPLER: Emily R-Love DATE Signed: 12/2/2020

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 14, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92509555001	**MW-62**	MADEP VPH	ADM	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509555002	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

Sample: MW-62 **Lab ID: 92509555001** Collected: 12/03/20 08:45 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/11/20 04:24	12/11/20 04:24		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/11/20 04:24	12/11/20 04:24		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/11/20 04:24	12/11/20 04:24	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/11/20 04:24	12/11/20 04:24	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.8	%	70.0-130	1	12/11/20 04:24	12/11/20 04:24	615-59-8FID	
2,5-Dibromotoluene (PID)	94.1	%	70.0-130	1	12/11/20 04:24	12/11/20 04:24	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	ND	ug/L	25.0	5	12/08/20 01:57	12/14/20 12:25	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**0.67**	ug/L	0.50	1		12/08/20 03:23	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 03:23	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 03:23	74-97-5	
Bromodichloromethane	**4.8**	ug/L	0.50	1		12/08/20 03:23	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 03:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 03:23	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 03:23	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 03:23	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 03:23	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 03:23	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 03:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 03:23	75-00-3	
Chloroform	**22.2**	ug/L	0.50	1		12/08/20 03:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 03:23	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 03:23	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 03:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 03:23	96-12-8	
Dibromochloromethane	**1.2**	ug/L	0.50	1		12/08/20 03:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 03:23	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 03:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 03:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 03:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 03:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 03:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 03:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 03:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 03:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 03:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 03:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 03:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 03:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 03:23	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

Sample: MW-62 **Lab ID: 92509555001** Collected: 12/03/20 08:45 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 03:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 03:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 03:23	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 03:23	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 03:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 03:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 03:23	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 03:23	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 03:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 03:23	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 03:23	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 03:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 03:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 03:23	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 03:23	127-18-4	
Toluene	**1.4**	ug/L	0.50	1		12/08/20 03:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 03:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 03:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 03:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 03:23	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 03:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 03:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 03:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 03:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 03:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 03:23	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 03:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 03:23	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		12/08/20 03:23	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		12/08/20 03:23	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/08/20 03:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

Sample: Trip Blank **Lab ID: 92509555002** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 00:08	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 00:08	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 00:08	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 00:08	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 00:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 00:08	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 00:08	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 00:08	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 00:08	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 00:08	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 00:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 00:08	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 00:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 00:08	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 00:08	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 00:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 00:08	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 00:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 00:08	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 00:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 00:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 00:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 00:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 00:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 00:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 00:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 00:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 00:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 00:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 00:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 00:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 00:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 00:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 00:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 00:08	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 00:08	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 00:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 00:08	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 00:08	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 00:08	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 00:08	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 00:08	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 00:08	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 00:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 00:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 00:08	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

Sample: Trip Blank **Lab ID: 92509555002** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 00:08	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 00:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 00:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 00:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 00:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 00:08	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 00:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 00:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 00:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 00:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 00:08	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 00:08	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 00:08	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 00:08	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/08/20 00:08	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		12/08/20 00:08	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/08/20 00:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

QC Batch: 1590038
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92509555001

METHOD BLANK: R3602761-3 Matrix: Water
Associated Lab Samples: 92509555001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/11/20 00:31	
Aliphatic (C09-C12)	ug/L	ND	100	12/11/20 00:31	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/11/20 00:31	
Total VPH	ug/L	ND	100	12/11/20 00:31	
2,5-Dibromotoluene (FID)	%	84.4	70.0-130	12/11/20 00:31	
2,5-Dibromotoluene (PID)	%	85.1	70.0-130	12/11/20 00:31	

LABORATORY CONTROL SAMPLE & LCSD: R3602761-1 R3602761-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1340	1340	112	112	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1540	1540	110	110	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	239	231	119	116	70.0-130	3.40	25	
Total VPH	ug/L	2800	3120	3110	111	111	70.0-130	0.321	25	
2,5-Dibromotoluene (FID)	%				88.3	91.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.5	92.4	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

QC Batch: 585195
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92509555001

METHOD BLANK: 3093306 Matrix: Water
Associated Lab Samples: 92509555001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/11/20 10:04	

LABORATORY CONTROL SAMPLE: 3093307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	252	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3093308 3093309

Parameter	Units	92508272007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	274	275	109	109	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

QC Batch: 585040
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92509555001, 92509555002

METHOD BLANK: 3092613 Matrix: Water
Associated Lab Samples: 92509555001, 92509555002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/07/20 23:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/07/20 23:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/07/20 23:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
1,3-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
2,2-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
2-Chlorotoluene	ug/L	ND	0.50	12/07/20 23:15	
4-Chlorotoluene	ug/L	ND	0.50	12/07/20 23:15	
Benzene	ug/L	ND	0.50	12/07/20 23:15	
Bromobenzene	ug/L	ND	0.50	12/07/20 23:15	
Bromochloromethane	ug/L	ND	0.50	12/07/20 23:15	
Bromodichloromethane	ug/L	ND	0.50	12/07/20 23:15	
Bromoform	ug/L	ND	0.50	12/07/20 23:15	
Bromomethane	ug/L	ND	5.0	12/07/20 23:15	
Carbon tetrachloride	ug/L	ND	0.50	12/07/20 23:15	
Chlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
Chloroethane	ug/L	ND	1.0	12/07/20 23:15	
Chloroform	ug/L	ND	0.50	12/07/20 23:15	
Chloromethane	ug/L	ND	1.0	12/07/20 23:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
Dibromochloromethane	ug/L	ND	0.50	12/07/20 23:15	
Dibromomethane	ug/L	ND	0.50	12/07/20 23:15	
Dichlorodifluoromethane	ug/L	ND	0.50	12/07/20 23:15	
Diisopropyl ether	ug/L	ND	0.50	12/07/20 23:15	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

METHOD BLANK: 3092613 Matrix: Water
Associated Lab Samples: 92509555001, 92509555002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/07/20 23:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/07/20 23:15	
m&p-Xylene	ug/L	ND	1.0	12/07/20 23:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/07/20 23:15	
Methylene Chloride	ug/L	ND	2.0	12/07/20 23:15	
n-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
n-Propylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Naphthalene	ug/L	ND	2.0	12/07/20 23:15	
o-Xylene	ug/L	ND	0.50	12/07/20 23:15	
sec-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Styrene	ug/L	ND	0.50	12/07/20 23:15	
tert-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Tetrachloroethene	ug/L	ND	0.50	12/07/20 23:15	
Toluene	ug/L	ND	0.50	12/07/20 23:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
Trichloroethene	ug/L	ND	0.50	12/07/20 23:15	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/20 23:15	
Vinyl chloride	ug/L	ND	1.0	12/07/20 23:15	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/07/20 23:15	
4-Bromofluorobenzene (S)	%	102	70-130	12/07/20 23:15	
Toluene-d8 (S)	%	101	70-130	12/07/20 23:15	

LABORATORY CONTROL SAMPLE: 3092614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	59.2	118	60-140	
1,1,1-Trichloroethane	ug/L	50	52.4	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,2-Trichloroethane	ug/L	50	49.2	98	60-140	
1,1-Dichloroethane	ug/L	50	49.7	99	60-140	
1,1-Dichloroethene	ug/L	50	49.5	99	60-140	
1,1-Dichloropropene	ug/L	50	51.9	104	60-140	
1,2,3-Trichlorobenzene	ug/L	50	51.4	103	60-140	
1,2,3-Trichloropropane	ug/L	50	51.1	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.0	112	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.7	111	60-140	
1,2-Dichlorobenzene	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane	ug/L	50	46.8	94	60-140	
1,2-Dichloropropane	ug/L	50	52.2	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.8	102	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

LABORATORY CONTROL SAMPLE: 3092614

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	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	56.3	113	60-140	
2-Chlorotoluene	ug/L	50	51.8	104	60-140	
4-Chlorotoluene	ug/L	50	49.9	100	60-140	
Benzene	ug/L	50	49.6	99	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	49.3	99	60-140	
Bromodichloromethane	ug/L	50	47.3	95	60-140	
Bromoform	ug/L	50	57.9	116	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	53.0	106	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	41.9	84	60-140	
Chloroform	ug/L	50	47.8	96	60-140	
Chloromethane	ug/L	50	42.2	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	60-140	
Dibromochloromethane	ug/L	50	59.0	118	60-140	
Dibromomethane	ug/L	50	48.8	98	60-140	
Dichlorodifluoromethane	ug/L	50	40.1	80	60-140	
Diisopropyl ether	ug/L	50	49.1	98	60-140	
Ethylbenzene	ug/L	50	50.1	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	53.4	107	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	49.2	98	60-140	
Methylene Chloride	ug/L	50	46.7	93	60-140	
n-Butylbenzene	ug/L	50	52.9	106	60-140	
n-Propylbenzene	ug/L	50	51.2	102	60-140	
Naphthalene	ug/L	50	51.3	103	60-140	
o-Xylene	ug/L	50	51.7	103	60-140	
sec-Butylbenzene	ug/L	50	50.8	102	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	43.7	87	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.0	110	60-140	
Trichloroethene	ug/L	50	48.6	97	60-140	
Trichlorofluoromethane	ug/L	50	44.9	90	60-140	
Vinyl chloride	ug/L	50	44.3	89	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092615 3092616

Parameter	Units	92509560004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	28.4	23.9	142	119	60-140	17	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	25.6	22.3	128	111	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	24.9	21.9	125	109	60-140	13	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	20.5	120	102	60-140	16	
1,1-Dichloroethane	ug/L	ND	20	20	25.2	21.6	126	108	60-140	16	
1,1-Dichloroethene	ug/L	ND	20	20	25.2	21.4	126	107	60-140	16	
1,1-Dichloropropene	ug/L	ND	20	20	25.1	21.8	126	109	60-140	14	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.5	20.8	118	104	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	20	20	25.7	21.6	129	108	60-140	18	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.5	20.6	112	103	60-140	9	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.1	20.7	110	103	60-140	6	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	27.6	23.6	138	118	60-140	16	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	27.0	23.1	135	116	60-140	15	
1,2-Dichlorobenzene	ug/L	ND	20	20	23.0	20.9	115	105	60-140	9	
1,2-Dichloroethane	ug/L	ND	20	20	22.3	19.7	112	98	60-140	13	
1,2-Dichloropropane	ug/L	ND	20	20	25.7	21.9	128	109	60-140	16	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	21.1	116	106	60-140	10	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.3	21.1	117	105	60-140	10	
1,3-Dichloropropane	ug/L	ND	20	20	27.3	23.8	137	119	60-140	14	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.6	20.1	113	101	60-140	12	
2,2-Dichloropropane	ug/L	ND	20	20	29.0	23.9	145	120	60-140	19	M1
2-Chlorotoluene	ug/L	ND	20	20	23.8	21.7	119	108	60-140	9	
4-Chlorotoluene	ug/L	ND	20	20	23.1	20.9	115	105	60-140	10	
Benzene	ug/L	ND	20	20	25.1	21.7	125	108	60-140	15	
Bromobenzene	ug/L	ND	20	20	23.1	21.2	115	106	60-140	8	
Bromochloromethane	ug/L	ND	20	20	23.5	21.3	118	106	60-140	10	
Bromodichloromethane	ug/L	ND	20	20	23.5	20.2	118	101	60-140	15	
Bromoform	ug/L	ND	20	20	26.3	22.9	131	114	60-140	14	
Bromomethane	ug/L	ND	20	20	23.3	19.3	116	96	60-140	19	
Carbon tetrachloride	ug/L	ND	20	20	27.0	23.5	135	118	60-140	14	
Chlorobenzene	ug/L	ND	20	20	24.4	20.9	122	105	60-140	15	
Chloroethane	ug/L	ND	20	20	23.6	20.9	118	105	60-140	12	
Chloroform	ug/L	2.9	20	20	26.8	23.9	119	105	60-140	12	
Chloromethane	ug/L	ND	20	20	19.7	17.2	99	86	60-140	14	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.9	20.7	119	104	60-140	14	
cis-1,3-Dichloropropene	ug/L	ND	20	20	26.2	22.5	131	112	60-140	15	
Dibromochloromethane	ug/L	ND	20	20	28.0	23.1	140	116	60-140	19	
Dibromomethane	ug/L	ND	20	20	23.9	20.5	120	102	60-140	16	
Dichlorodifluoromethane	ug/L	ND	20	20	16.7	14.4	83	72	60-140	15	
Diisopropyl ether	ug/L	ND	20	20	22.8	19.7	114	99	60-140	14	
Ethylbenzene	ug/L	ND	20	20	24.3	21.3	121	107	60-140	13	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	26.6	24.6	133	123	60-140	8	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.3	21.4	122	107	60-140	13	
m&p-Xylene	ug/L	ND	40	40	49.4	42.9	124	107	60-140	14	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.8	20.0	114	100	60-140	13	
Methylene Chloride	ug/L	ND	20	20	22.8	20.0	114	100	60-140	13	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092615 3092616

Parameter	Units	92509560004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	23.8	22.2	119	111	60-140	7	
n-Propylbenzene	ug/L	ND	20	20	23.3	21.3	117	107	60-140	9	
Naphthalene	ug/L	ND	20	20	22.9	21.0	115	105	60-140	9	
o-Xylene	ug/L	ND	20	20	23.9	21.9	120	109	60-140	9	
sec-Butylbenzene	ug/L	ND	20	20	23.8	21.9	119	109	60-140	8	
Styrene	ug/L	ND	20	20	24.0	21.1	120	105	60-140	13	
tert-Butylbenzene	ug/L	ND	20	20	20.7	18.5	104	92	60-140	12	
Tetrachloroethene	ug/L	ND	20	20	22.0	20.3	110	102	60-140	8	
Toluene	ug/L	ND	20	20	23.0	20.1	115	100	60-140	13	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.8	21.7	124	108	60-140	13	
trans-1,3-Dichloropropene	ug/L	ND	20	20	26.0	22.1	130	111	60-140	16	
Trichloroethene	ug/L	ND	20	20	23.7	21.2	118	106	60-140	11	
Trichlorofluoromethane	ug/L	ND	20	20	22.3	19.8	111	99	60-140	12	
Vinyl chloride	ug/L	ND	20	20	20.7	18.1	104	90	60-140	14	
1,2-Dichloroethane-d4 (S)	%						101	100	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509555

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92509555001	**MW-62**	MADEPV	1590038	MADEP VPH	1590038
92509555001	**MW-62**	EPA 3010A	585195	EPA 6010D	585200
92509555001	**MW-62**	SM 6200B	585040		
92509555002	**Trip Blank**	SM 6200B	585040		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 92509555

92509555

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 12/4/20 LDH

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: 1.8 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.7

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

USDA Regulated Soil (☒ N/A, water sample)

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

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

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

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

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

Project # **WO# : 92509555**

PM: NMG Due Date: 12/10/20

CLIENT: 92-AECOM CHA

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										1													
2																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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	AECOM	Report To:	Andrew Wreschnig	Attention:	
Address:	6000 Fairview Road	Copy To:		Company Name:	
Suite 200, Charlotte, NC 28226				Address:	Regulatory Agency
Email:		Purchase Order #:		Pace Quote:	
Phone: (704)522-0330	Fax	Project Name:	Colonial Pipeline	Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	12518-3

State / Location: NC

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): 6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	12509555
1	MW-62	WT	G			12/3	0845		8			X	X						X	X	X			601
2	Trip Blank	T						Lab	Provided													X		602
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Emily R. Love / AECOM	12/3/20	1700	PACE HCL	12/3/20	1700	1.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emily Love

SIGNATURE of SAMPLER: Emily R. Love DATE Signed: 12/3/2020

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 15, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 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
- 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
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92509560001	**MW-29**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560002	**MW-38**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560003	**MW-41**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560004	**MW-53**	MADEP VPH	ADM	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560005	**MW-54**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560006	**MW-56**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560007	**MW-57**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560008	**MW-61**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560009	**MW-63**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560010	**Dup-1-20201203**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560011	**Dup-2-20201203**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560012	**Dup-3-20201203**	MADEP VPH	ADM	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92509560013	**FB-1-20201203**	MADEP VPH	ADM	6	PAN

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 6200B	SAS	63	PASI-C
92509560014	**Trip Blank**	SM 6200B	SAS	63	PASI-C
92509560015	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-29 **Lab ID: 92509560001** Collected: 12/03/20 11:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/11/20 04:57	12/11/20 04:57		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/11/20 04:57	12/11/20 04:57		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/11/20 04:57	12/11/20 04:57	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/11/20 04:57	12/11/20 04:57	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.4	%	70.0-130	1	12/11/20 04:57	12/11/20 04:57	615-59-8FID	
2,5-Dibromotoluene (PID)	94.1	%	70.0-130	1	12/11/20 04:57	12/11/20 04:57	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**23.7**	ug/L	5.0	1	12/08/20 01:57	12/11/20 13:51	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 03:06	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 03:06	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 03:06	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 03:06	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 03:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 03:06	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 03:06	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 03:06	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 03:06	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 03:06	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 03:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 03:06	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 03:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 03:06	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 03:06	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 03:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 03:06	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 03:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 03:06	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 03:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 03:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 03:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 03:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 03:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 03:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 03:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 03:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 03:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 03:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 03:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 03:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 03:06	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-29 **Lab ID: 92509560001** Collected: 12/03/20 11:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 03:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 03:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 03:06	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 03:06	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 03:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 03:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 03:06	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 03:06	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 03:06	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 03:06	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 03:06	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 03:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 03:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 03:06	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 03:06	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 03:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 03:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 03:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 03:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 03:06	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 03:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 03:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 03:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 03:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 03:06	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 03:06	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 03:06	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 03:06	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/08/20 03:06	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/08/20 03:06	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/08/20 03:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-38 **Lab ID: 92509560002** Collected: 12/03/20 15:10 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**681**	ug/L	100	1	12/11/20 05:30	12/11/20 05:30		
Aliphatic (C09-C12)	**153**	ug/L	100	1	12/11/20 05:30	12/11/20 05:30		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/11/20 05:30	12/11/20 05:30	TPHC9C10A	
Total VPH	**885**	ug/L	100	1	12/11/20 05:30	12/11/20 05:30	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.6	%	70.0-130	1	12/11/20 05:30	12/11/20 05:30	615-59-8FID	
2,5-Dibromotoluene (PID)	97.0	%	70.0-130	1	12/11/20 05:30	12/11/20 05:30	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**22.4**	ug/L	5.0	1	12/08/20 01:57	12/11/20 13:54	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**125**	ug/L	0.50	1		12/08/20 01:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 01:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 01:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 01:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 01:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 01:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 01:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 01:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 01:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 01:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 01:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 01:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 01:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 01:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 01:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 01:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 01:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 01:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 01:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 01:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 01:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 01:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 01:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 01:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 01:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 01:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 01:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 01:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 01:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 01:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 01:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 01:37	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-38 **Lab ID: 92509560002** Collected: 12/03/20 15:10 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 01:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 01:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 01:37	10061-02-6	
Diisopropyl ether	**50.4**	ug/L	0.50	1		12/08/20 01:37	108-20-3	
Ethylbenzene	**14.1**	ug/L	0.50	1		12/08/20 01:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 01:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 01:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 01:37	75-09-2	
Methyl-tert-butyl ether	**19.0**	ug/L	0.50	1		12/08/20 01:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 01:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 01:37	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 01:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 01:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 01:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 01:37	127-18-4	
Toluene	**152**	ug/L	0.50	1		12/08/20 01:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 01:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 01:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 01:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 01:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 01:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 01:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 01:37	96-18-4	
1,2,4-Trimethylbenzene	**3.9**	ug/L	0.50	1		12/08/20 01:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 01:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 01:37	75-01-4	
m&p-Xylene	**45.7**	ug/L	1.0	1		12/08/20 01:37	179601-23-1	
o-Xylene	**30.8**	ug/L	0.50	1		12/08/20 01:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/08/20 01:37	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		12/08/20 01:37	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		12/08/20 01:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-41 **Lab ID: 92509560003** Collected: 12/03/20 13:25 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/11/20 06:03	12/11/20 06:03		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/11/20 06:03	12/11/20 06:03		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/11/20 06:03	12/11/20 06:03	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/11/20 06:03	12/11/20 06:03	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.8	%	70.0-130	1	12/11/20 06:03	12/11/20 06:03	615-59-8FID	
2,5-Dibromotoluene (PID)	94.7	%	70.0-130	1	12/11/20 06:03	12/11/20 06:03	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**13.6**	ug/L	5.0	1	12/08/20 01:57	12/11/20 13:57	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**5.3**	ug/L	0.50	1		12/08/20 01:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 01:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 01:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 01:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 01:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 01:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 01:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 01:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 01:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 01:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 01:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 01:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 01:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 01:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 01:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 01:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 01:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 01:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 01:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 01:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 01:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 01:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 01:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 01:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 01:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 01:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 01:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 01:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 01:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 01:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 01:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 01:55	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-41 **Lab ID: 92509560003** Collected: 12/03/20 13:25 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 01:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 01:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 01:55	10061-02-6	
Diisopropyl ether	**1.6**	ug/L	0.50	1		12/08/20 01:55	108-20-3	
Ethylbenzene	**0.68**	ug/L	0.50	1		12/08/20 01:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 01:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 01:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 01:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 01:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 01:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 01:55	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 01:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 01:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 01:55	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 01:55	127-18-4	
Toluene	**8.5**	ug/L	0.50	1		12/08/20 01:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 01:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 01:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 01:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 01:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 01:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 01:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 01:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 01:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 01:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 01:55	75-01-4	
m&p-Xylene	**3.0**	ug/L	1.0	1		12/08/20 01:55	179601-23-1	
o-Xylene	**1.7**	ug/L	0.50	1		12/08/20 01:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/08/20 01:55	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/08/20 01:55	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/08/20 01:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-53 **Lab ID: 92509560004** Collected: 12/03/20 12:40 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/11/20 06:36	12/11/20 06:36		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/11/20 06:36	12/11/20 06:36		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/11/20 06:36	12/11/20 06:36	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/11/20 06:36	12/11/20 06:36	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.9	%	70.0-130	1	12/11/20 06:36	12/11/20 06:36	615-59-8FID	
2,5-Dibromotoluene (PID)	100	%	70.0-130	1	12/11/20 06:36	12/11/20 06:36	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**23.6**	ug/L	10.0	2	12/08/20 01:57	12/14/20 12:35	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 02:48	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 02:48	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 02:48	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 02:48	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 02:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 02:48	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 02:48	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 02:48	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 02:48	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 02:48	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 02:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 02:48	75-00-3	
Chloroform	**2.9**	ug/L	0.50	1		12/08/20 02:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 02:48	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 02:48	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 02:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 02:48	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 02:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 02:48	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 02:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 02:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 02:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 02:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 02:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 02:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 02:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 02:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 02:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 02:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 02:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 02:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 02:48	594-20-7	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-53 **Lab ID: 92509560004** Collected: 12/03/20 12:40 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 02:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 02:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 02:48	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 02:48	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 02:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 02:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 02:48	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 02:48	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 02:48	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 02:48	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 02:48	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 02:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 02:48	630-20-6	M1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 02:48	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 02:48	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 02:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 02:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 02:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 02:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 02:48	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 02:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 02:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 02:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 02:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 02:48	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 02:48	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 02:48	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 02:48	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/08/20 02:48	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/08/20 02:48	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/08/20 02:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-54 **Lab ID: 92509560005** Collected: 12/03/20 14:10 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/11/20 07:09	12/11/20 07:09		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/11/20 07:09	12/11/20 07:09		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/11/20 07:09	12/11/20 07:09	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/11/20 07:09	12/11/20 07:09	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.0	%	70.0-130	1	12/11/20 07:09	12/11/20 07:09	615-59-8FID	
2,5-Dibromotoluene (PID)	96.3	%	70.0-130	1	12/11/20 07:09	12/11/20 07:09	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**18.6**	ug/L	5.0	1	12/08/20 01:57	12/11/20 14:03	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 02:30	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 02:30	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 02:30	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 02:30	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 02:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 02:30	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 02:30	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 02:30	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 02:30	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 02:30	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 02:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 02:30	75-00-3	
Chloroform	**2.4**	ug/L	0.50	1		12/08/20 02:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 02:30	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 02:30	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 02:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 02:30	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 02:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 02:30	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 02:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 02:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 02:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 02:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 02:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 02:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 02:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 02:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 02:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 02:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 02:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 02:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 02:30	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-54 **Lab ID: 92509560005** Collected: 12/03/20 14:10 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 02:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 02:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 02:30	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 02:30	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 02:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 02:30	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 02:30	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 02:30	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 02:30	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 02:30	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 02:30	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 02:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 02:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 02:30	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 02:30	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 02:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 02:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 02:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 02:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 02:30	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 02:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 02:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 02:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 02:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 02:30	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 02:30	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 02:30	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 02:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		12/08/20 02:30	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		12/08/20 02:30	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/08/20 02:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-56 **Lab ID: 92509560006** Collected: 12/03/20 09:45 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/11/20 23:32	12/11/20 23:32		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/11/20 23:32	12/11/20 23:32		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/11/20 23:32	12/11/20 23:32	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/11/20 23:32	12/11/20 23:32	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.3	%	70.0-130	1	12/11/20 23:32	12/11/20 23:32	615-59-8FID	
2,5-Dibromotoluene (PID)	89.6	%	70.0-130	1	12/11/20 23:32	12/11/20 23:32	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**8.4**	ug/L	5.0	1	12/08/20 01:57	12/11/20 14:07	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 02:12	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 02:12	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 02:12	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 02:12	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 02:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 02:12	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 02:12	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 02:12	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 02:12	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 02:12	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 02:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 02:12	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 02:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 02:12	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 02:12	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 02:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 02:12	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 02:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 02:12	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 02:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 02:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 02:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 02:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 02:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 02:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 02:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 02:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 02:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 02:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 02:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 02:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 02:12	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-56 **Lab ID: 92509560006** Collected: 12/03/20 09:45 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 02:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 02:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 02:12	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 02:12	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 02:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 02:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 02:12	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 02:12	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 02:12	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 02:12	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 02:12	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 02:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 02:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 02:12	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 02:12	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 02:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 02:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 02:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 02:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 02:12	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 02:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 02:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 02:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 02:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 02:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 02:12	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 02:12	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 02:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/08/20 02:12	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/08/20 02:12	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/08/20 02:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-57 **Lab ID: 92509560007** Collected: 12/03/20 11:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/12/20 00:05	12/12/20 00:05		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/12/20 00:05	12/12/20 00:05		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/12/20 00:05	12/12/20 00:05	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/12/20 00:05	12/12/20 00:05	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.6	%	70.0-130	1	12/12/20 00:05	12/12/20 00:05	615-59-8FID	
2,5-Dibromotoluene (PID)	90.0	%	70.0-130	1	12/12/20 00:05	12/12/20 00:05	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**31.8**	ug/L	5.0	1	12/08/20 01:57	12/11/20 14:17	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 17:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 17:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 17:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 17:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 17:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 17:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 17:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 17:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 17:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 17:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 17:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 17:45	75-00-3	
Chloroform	**0.65**	ug/L	0.50	1		12/08/20 17:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 17:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 17:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 17:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 17:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 17:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 17:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 17:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 17:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 17:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 17:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 17:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 17:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 17:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 17:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 17:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 17:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 17:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 17:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 17:45	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-57 **Lab ID: 92509560007** Collected: 12/03/20 11:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 17:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 17:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 17:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 17:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 17:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 17:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 17:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 17:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 17:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 17:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 17:45	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 17:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 17:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 17:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 17:45	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 17:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 17:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 17:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 17:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 17:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 17:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 17:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 17:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 17:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 17:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 17:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 17:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 17:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/08/20 17:45	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		12/08/20 17:45	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/08/20 17:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-61 **Lab ID: 92509560008** Collected: 12/03/20 14:05 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/12/20 00:39	12/12/20 00:39		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/12/20 00:39	12/12/20 00:39		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/12/20 00:39	12/12/20 00:39	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/12/20 00:39	12/12/20 00:39	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.6	%	70.0-130	1	12/12/20 00:39	12/12/20 00:39	615-59-8FID	
2,5-Dibromotoluene (PID)	94.5	%	70.0-130	1	12/12/20 00:39	12/12/20 00:39	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**30.9**	ug/L	5.0	1	12/08/20 01:57	12/11/20 14:20	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**3.3**	ug/L	0.50	1		12/08/20 18:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 18:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 18:03	74-97-5	
Bromodichloromethane	**5.5**	ug/L	0.50	1		12/08/20 18:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 18:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 18:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 18:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 18:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 18:03	75-00-3	
Chloroform	**31.0**	ug/L	0.50	1		12/08/20 18:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 18:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 18:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 18:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 18:03	96-12-8	
Dibromochloromethane	**1.3**	ug/L	0.50	1		12/08/20 18:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 18:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 18:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 18:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 18:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 18:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:03	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-61 **Lab ID: 92509560008** Collected: 12/03/20 14:05 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 18:03	108-20-3	
Ethylbenzene	**0.54**	ug/L	0.50	1		12/08/20 18:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 18:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 18:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 18:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 18:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 18:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 18:03	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 18:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 18:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 18:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 18:03	127-18-4	
Toluene	**7.9**	ug/L	0.50	1		12/08/20 18:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 18:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 18:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 18:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 18:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 18:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 18:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 18:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 18:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 18:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 18:03	75-01-4	
m&p-Xylene	**1.4**	ug/L	1.0	1		12/08/20 18:03	179601-23-1	
o-Xylene	**0.87**	ug/L	0.50	1		12/08/20 18:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/08/20 18:03	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/08/20 18:03	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/08/20 18:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-63 **Lab ID: 92509560009** Collected: 12/03/20 15:15 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/12/20 01:12	12/12/20 01:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/12/20 01:12	12/12/20 01:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/12/20 01:12	12/12/20 01:12	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/12/20 01:12	12/12/20 01:12	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.4	%	70.0-130	1	12/12/20 01:12	12/12/20 01:12	615-59-8FID	
2,5-Dibromotoluene (PID)	89.7	%	70.0-130	1	12/12/20 01:12	12/12/20 01:12	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**6.3**	ug/L	5.0	1	12/08/20 01:57	12/11/20 14:30	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 18:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 18:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 18:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 18:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 18:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 18:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 18:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 18:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 18:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 18:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 18:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 18:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 18:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 18:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 18:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 18:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 18:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 18:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 18:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 18:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:21	594-20-7	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: MW-63 **Lab ID: 92509560009** Collected: 12/03/20 15:15 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 18:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 18:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 18:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 18:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 18:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 18:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 18:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 18:21	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 18:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 18:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 18:21	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 18:21	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 18:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 18:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 18:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 18:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 18:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 18:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 18:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 18:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 18:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 18:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 18:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 18:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 18:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/08/20 18:21	17060-07-0	
4-Bromofluorobenzene (S)	107	%	70-130	1		12/08/20 18:21	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/08/20 18:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: Dup-1-20201203 **Lab ID: 92509560010** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/12/20 01:45	12/12/20 01:45		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/12/20 01:45	12/12/20 01:45		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/12/20 01:45	12/12/20 01:45	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/12/20 01:45	12/12/20 01:45	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.9	%	70.0-130	1	12/12/20 01:45	12/12/20 01:45	615-59-8FID	
2,5-Dibromotoluene (PID)	95.2	%	70.0-130	1	12/12/20 01:45	12/12/20 01:45	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**32.9**	ug/L	5.0	1	12/08/20 01:57	12/11/20 14:33	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 18:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 18:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 18:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 18:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 18:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 18:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 18:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 18:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 18:39	75-00-3	
Chloroform	**2.8**	ug/L	0.50	1		12/08/20 18:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 18:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 18:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 18:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 18:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 18:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 18:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 18:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 18:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:39	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: Dup-1-20201203 **Lab ID: 92509560010** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 18:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 18:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 18:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 18:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 18:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 18:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 18:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 18:39	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 18:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 18:39	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 18:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 18:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 18:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 18:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 18:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 18:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 18:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 18:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 18:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 18:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 18:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		12/08/20 18:39	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		12/08/20 18:39	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/08/20 18:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: Dup-2-20201203 **Lab ID: 92509560011** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/12/20 02:18	12/12/20 02:18		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/12/20 02:18	12/12/20 02:18		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/12/20 02:18	12/12/20 02:18	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/12/20 02:18	12/12/20 02:18	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.6	%	70.0-130	1	12/12/20 02:18	12/12/20 02:18	615-59-8FID	
2,5-Dibromotoluene (PID)	91.5	%	70.0-130	1	12/12/20 02:18	12/12/20 02:18	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**14.7**	ug/L	5.0	1	12/08/20 01:57	12/11/20 14:36	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 18:56	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 18:56	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 18:56	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 18:56	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 18:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 18:56	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:56	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:56	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 18:56	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 18:56	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 18:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 18:56	75-00-3	
Chloroform	**2.9**	ug/L	0.50	1		12/08/20 18:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 18:56	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 18:56	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 18:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 18:56	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 18:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 18:56	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 18:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 18:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 18:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 18:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 18:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 18:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 18:56	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: Dup-2-20201203 **Lab ID: 92509560011** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 18:56	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 18:56	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 18:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 18:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 18:56	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 18:56	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 18:56	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 18:56	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 18:56	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 18:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 18:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 18:56	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 18:56	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 18:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 18:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 18:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 18:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 18:56	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 18:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 18:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 18:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 18:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 18:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 18:56	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 18:56	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 18:56	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/08/20 18:56	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/08/20 18:56	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/08/20 18:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: Dup-3-20201203 **Lab ID: 92509560012** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	**761**	ug/L	100	1	12/12/20 02:51	12/12/20 02:51		
Aliphatic (C09-C12)	**162**	ug/L	100	1	12/12/20 02:51	12/12/20 02:51		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/12/20 02:51	12/12/20 02:51	TPHC9C10A	
Total VPH	**969**	ug/L	100	1	12/12/20 02:51	12/12/20 02:51	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.0	%	70.0-130	1	12/12/20 02:51	12/12/20 02:51	615-59-8FID	
2,5-Dibromotoluene (PID)	92.6	%	70.0-130	1	12/12/20 02:51	12/12/20 02:51	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**24.6**	ug/L	5.0	1	12/08/20 01:57	12/11/20 14:39	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**134**	ug/L	0.50	1		12/08/20 19:14	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 19:14	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 19:14	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 19:14	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 19:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 19:14	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 19:14	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 19:14	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 19:14	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 19:14	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 19:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 19:14	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 19:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 19:14	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 19:14	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 19:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 19:14	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 19:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 19:14	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 19:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 19:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 19:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 19:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 19:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 19:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 19:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 19:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 19:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 19:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 19:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 19:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 19:14	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: Dup-3-20201203 **Lab ID: 92509560012** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 19:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 19:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 19:14	10061-02-6	
Diisopropyl ether	**51.8**	ug/L	0.50	1		12/08/20 19:14	108-20-3	
Ethylbenzene	**14.6**	ug/L	0.50	1		12/08/20 19:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 19:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 19:14	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 19:14	75-09-2	
Methyl-tert-butyl ether	**19.3**	ug/L	0.50	1		12/08/20 19:14	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 19:14	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 19:14	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 19:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 19:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 19:14	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 19:14	127-18-4	
Toluene	**162**	ug/L	0.50	1		12/08/20 19:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 19:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 19:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 19:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 19:14	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 19:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 19:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 19:14	96-18-4	
1,2,4-Trimethylbenzene	**4.2**	ug/L	0.50	1		12/08/20 19:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 19:14	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 19:14	75-01-4	
m&p-Xylene	**50.1**	ug/L	1.0	1		12/08/20 19:14	179601-23-1	
o-Xylene	**33.9**	ug/L	0.50	1		12/08/20 19:14	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/08/20 19:14	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/08/20 19:14	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		12/08/20 19:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: FB-1-20201203 **Lab ID: 92509560013** Collected: 12/03/20 16:10 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/11/20 03:51	12/11/20 03:51		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/11/20 03:51	12/11/20 03:51		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/11/20 03:51	12/11/20 03:51	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/11/20 03:51	12/11/20 03:51	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.8	%	70.0-130	1	12/11/20 03:51	12/11/20 03:51	615-59-8FID	
2,5-Dibromotoluene (PID)	91.2	%	70.0-130	1	12/11/20 03:51	12/11/20 03:51	615-59-8PID	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 16:35	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 16:35	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 16:35	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 16:35	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 16:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 16:35	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 16:35	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 16:35	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 16:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 16:35	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 16:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 16:35	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 16:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 16:35	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 16:35	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 16:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 16:35	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 16:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 16:35	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 16:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 16:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 16:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 16:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 16:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 16:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 16:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 16:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 16:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 16:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 16:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 16:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 16:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 16:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 16:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 16:35	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 16:35	108-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: FB-1-20201203 **Lab ID: 92509560013** Collected: 12/03/20 16:10 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 16:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 16:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 16:35	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 16:35	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 16:35	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 16:35	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 16:35	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 16:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 16:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 16:35	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 16:35	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 16:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 16:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 16:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 16:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 16:35	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 16:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 16:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 16:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 16:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 16:35	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 16:35	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 16:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 16:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/08/20 16:35	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/08/20 16:35	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/08/20 16:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: Trip Blank **Lab ID: 92509560014** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 16:00	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 16:00	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 16:00	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 16:00	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 16:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 16:00	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 16:00	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 16:00	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 16:00	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 16:00	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 16:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 16:00	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 16:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 16:00	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 16:00	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 16:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 16:00	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 16:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 16:00	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 16:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 16:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 16:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 16:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 16:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 16:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 16:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 16:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 16:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 16:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 16:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 16:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 16:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 16:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 16:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 16:00	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 16:00	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 16:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 16:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 16:00	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 16:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 16:00	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 16:00	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 16:00	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 16:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 16:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 16:00	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: Trip Blank **Lab ID: 92509560014** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 16:00	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 16:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 16:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 16:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 16:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 16:00	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 16:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 16:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 16:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 16:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 16:00	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 16:00	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 16:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 16:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/08/20 16:00	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/08/20 16:00	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/08/20 16:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: Trip Blank **Lab ID: 92509560015** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/08/20 16:17	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/08/20 16:17	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/08/20 16:17	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/08/20 16:17	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/08/20 16:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/08/20 16:17	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/08/20 16:17	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/08/20 16:17	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/08/20 16:17	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/08/20 16:17	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/08/20 16:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/20 16:17	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/08/20 16:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/20 16:17	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 16:17	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/08/20 16:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/08/20 16:17	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/08/20 16:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/08/20 16:17	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/08/20 16:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 16:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 16:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/08/20 16:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/08/20 16:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/08/20 16:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/08/20 16:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/08/20 16:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 16:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/08/20 16:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 16:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/08/20 16:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/08/20 16:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/08/20 16:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 16:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/08/20 16:17	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/08/20 16:17	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/08/20 16:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/08/20 16:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/08/20 16:17	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/08/20 16:17	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/08/20 16:17	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/08/20 16:17	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/08/20 16:17	103-65-1	
Styrene	ND	ug/L	0.50	1		12/08/20 16:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 16:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/08/20 16:17	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Sample: Trip Blank **Lab ID: 92509560015** Collected: 12/03/20 00:00 Received: 12/03/20 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/08/20 16:17	127-18-4	
Toluene	ND	ug/L	0.50	1		12/08/20 16:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 16:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/08/20 16:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/08/20 16:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/08/20 16:17	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/08/20 16:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/20 16:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/08/20 16:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 16:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/08/20 16:17	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/08/20 16:17	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/08/20 16:17	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/08/20 16:17	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		12/08/20 16:17	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		12/08/20 16:17	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/08/20 16:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

QC Batch: 1590038 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92509560001, 92509560002, 92509560003, 92509560004, 92509560005, 92509560013

METHOD BLANK: R3602761-3 Matrix: Water
Associated Lab Samples: 92509560001, 92509560002, 92509560003, 92509560004, 92509560005, 92509560013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/11/20 00:31	
Aliphatic (C09-C12)	ug/L	ND	100	12/11/20 00:31	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/11/20 00:31	
Total VPH	ug/L	ND	100	12/11/20 00:31	
2,5-Dibromotoluene (FID)	%	84.4	70.0-130	12/11/20 00:31	
2,5-Dibromotoluene (PID)	%	85.1	70.0-130	12/11/20 00:31	

LABORATORY CONTROL SAMPLE & LCSD: R3602761-1 R3602761-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1340	1340	112	112	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1540	1540	110	110	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	239	231	119	116	70.0-130	3.40	25	
Total VPH	ug/L	2800	3120	3110	111	111	70.0-130	0.321	25	
2,5-Dibromotoluene (FID)	%				88.3	91.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.5	92.4	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

QC Batch: 1590673 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92509560006, 92509560007, 92509560008, 92509560009, 92509560010, 92509560011, 92509560012

METHOD BLANK: R3602762-3 Matrix: Water
Associated Lab Samples: 92509560006, 92509560007, 92509560008, 92509560009, 92509560010, 92509560011, 92509560012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/11/20 22:36	
Aliphatic (C09-C12)	ug/L	ND	100	12/11/20 22:36	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/11/20 22:36	
Total VPH	ug/L	ND	100	12/11/20 22:36	
2,5-Dibromotoluene (FID)	%	92.4	70.0-130	12/11/20 22:36	
2,5-Dibromotoluene (PID)	%	92.7	70.0-130	12/11/20 22:36	

LABORATORY CONTROL SAMPLE & LCSD: R3602762-1 R3602762-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1380	1360	115	113	70.0-130	1.46	25	
Aliphatic (C09-C12)	ug/L	1400	1550	1550	111	111	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	221	220	111	110	70.0-130	0.454	25	
Total VPH	ug/L	2800	3150	3130	113	112	70.0-130	0.637	25	
2,5-Dibromotoluene (FID)	%				97.3	99.2	70.0-130			
2,5-Dibromotoluene (PID)	%				99.4	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

QC Batch: 585195 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92509560001, 92509560002, 92509560003, 92509560004, 92509560005, 92509560006, 92509560007, 92509560008, 92509560009, 92509560010, 92509560011, 92509560012

METHOD BLANK: 3093306 Matrix: Water
Associated Lab Samples: 92509560001, 92509560002, 92509560003, 92509560004, 92509560005, 92509560006, 92509560007, 92509560008, 92509560009, 92509560010, 92509560011, 92509560012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/11/20 10:04	

LABORATORY CONTROL SAMPLE: 3093307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	252	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3093308 3093309

Parameter	Units	92508272007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	274	275	109	109	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

QC Batch: 585040 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92509560001, 92509560002, 92509560003, 92509560004, 92509560005, 92509560006

METHOD BLANK: 3092613 Matrix: Water

Associated Lab Samples: 92509560001, 92509560002, 92509560003, 92509560004, 92509560005, 92509560006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
1,1-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/07/20 23:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/07/20 23:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/07/20 23:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichloroethane	ug/L	ND	0.50	12/07/20 23:15	
1,2-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
1,3-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
2,2-Dichloropropane	ug/L	ND	0.50	12/07/20 23:15	
2-Chlorotoluene	ug/L	ND	0.50	12/07/20 23:15	
4-Chlorotoluene	ug/L	ND	0.50	12/07/20 23:15	
Benzene	ug/L	ND	0.50	12/07/20 23:15	
Bromobenzene	ug/L	ND	0.50	12/07/20 23:15	
Bromochloromethane	ug/L	ND	0.50	12/07/20 23:15	
Bromodichloromethane	ug/L	ND	0.50	12/07/20 23:15	
Bromoform	ug/L	ND	0.50	12/07/20 23:15	
Bromomethane	ug/L	ND	5.0	12/07/20 23:15	
Carbon tetrachloride	ug/L	ND	0.50	12/07/20 23:15	
Chlorobenzene	ug/L	ND	0.50	12/07/20 23:15	
Chloroethane	ug/L	ND	1.0	12/07/20 23:15	
Chloroform	ug/L	ND	0.50	12/07/20 23:15	
Chloromethane	ug/L	ND	1.0	12/07/20 23:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
Dibromochloromethane	ug/L	ND	0.50	12/07/20 23:15	
Dibromomethane	ug/L	ND	0.50	12/07/20 23:15	
Dichlorodifluoromethane	ug/L	ND	0.50	12/07/20 23:15	
Diisopropyl ether	ug/L	ND	0.50	12/07/20 23:15	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

METHOD BLANK: 3092613 Matrix: Water
Associated Lab Samples: 92509560001, 92509560002, 92509560003, 92509560004, 92509560005, 92509560006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/07/20 23:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/07/20 23:15	
m&p-Xylene	ug/L	ND	1.0	12/07/20 23:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/07/20 23:15	
Methylene Chloride	ug/L	ND	2.0	12/07/20 23:15	
n-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
n-Propylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Naphthalene	ug/L	ND	2.0	12/07/20 23:15	
o-Xylene	ug/L	ND	0.50	12/07/20 23:15	
sec-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Styrene	ug/L	ND	0.50	12/07/20 23:15	
tert-Butylbenzene	ug/L	ND	0.50	12/07/20 23:15	
Tetrachloroethene	ug/L	ND	0.50	12/07/20 23:15	
Toluene	ug/L	ND	0.50	12/07/20 23:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/07/20 23:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/07/20 23:15	
Trichloroethene	ug/L	ND	0.50	12/07/20 23:15	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/20 23:15	
Vinyl chloride	ug/L	ND	1.0	12/07/20 23:15	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/07/20 23:15	
4-Bromofluorobenzene (S)	%	102	70-130	12/07/20 23:15	
Toluene-d8 (S)	%	101	70-130	12/07/20 23:15	

LABORATORY CONTROL SAMPLE: 3092614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	59.2	118	60-140	
1,1,1-Trichloroethane	ug/L	50	52.4	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,2-Trichloroethane	ug/L	50	49.2	98	60-140	
1,1-Dichloroethane	ug/L	50	49.7	99	60-140	
1,1-Dichloroethene	ug/L	50	49.5	99	60-140	
1,1-Dichloropropene	ug/L	50	51.9	104	60-140	
1,2,3-Trichlorobenzene	ug/L	50	51.4	103	60-140	
1,2,3-Trichloropropane	ug/L	50	51.1	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.0	112	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.7	111	60-140	
1,2-Dichlorobenzene	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane	ug/L	50	46.8	94	60-140	
1,2-Dichloropropane	ug/L	50	52.2	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.8	102	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

LABORATORY CONTROL SAMPLE: 3092614

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	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	49.7	99	60-140	
2,2-Dichloropropane	ug/L	50	56.3	113	60-140	
2-Chlorotoluene	ug/L	50	51.8	104	60-140	
4-Chlorotoluene	ug/L	50	49.9	100	60-140	
Benzene	ug/L	50	49.6	99	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	49.3	99	60-140	
Bromodichloromethane	ug/L	50	47.3	95	60-140	
Bromoform	ug/L	50	57.9	116	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	53.0	106	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	41.9	84	60-140	
Chloroform	ug/L	50	47.8	96	60-140	
Chloromethane	ug/L	50	42.2	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	60-140	
Dibromochloromethane	ug/L	50	59.0	118	60-140	
Dibromomethane	ug/L	50	48.8	98	60-140	
Dichlorodifluoromethane	ug/L	50	40.1	80	60-140	
Diisopropyl ether	ug/L	50	49.1	98	60-140	
Ethylbenzene	ug/L	50	50.1	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	53.4	107	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	49.2	98	60-140	
Methylene Chloride	ug/L	50	46.7	93	60-140	
n-Butylbenzene	ug/L	50	52.9	106	60-140	
n-Propylbenzene	ug/L	50	51.2	102	60-140	
Naphthalene	ug/L	50	51.3	103	60-140	
o-Xylene	ug/L	50	51.7	103	60-140	
sec-Butylbenzene	ug/L	50	50.8	102	60-140	
Styrene	ug/L	50	51.6	103	60-140	
tert-Butylbenzene	ug/L	50	43.7	87	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.0	110	60-140	
Trichloroethene	ug/L	50	48.6	97	60-140	
Trichlorofluoromethane	ug/L	50	44.9	90	60-140	
Vinyl chloride	ug/L	50	44.3	89	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092615 3092616

Parameter	Units	92509560004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	28.4	23.9	142	119	60-140	17	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	25.6	22.3	128	111	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	24.9	21.9	125	109	60-140	13	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	20.5	120	102	60-140	16	
1,1-Dichloroethane	ug/L	ND	20	20	25.2	21.6	126	108	60-140	16	
1,1-Dichloroethene	ug/L	ND	20	20	25.2	21.4	126	107	60-140	16	
1,1-Dichloropropene	ug/L	ND	20	20	25.1	21.8	126	109	60-140	14	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.5	20.8	118	104	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	20	20	25.7	21.6	129	108	60-140	18	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.5	20.6	112	103	60-140	9	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.1	20.7	110	103	60-140	6	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	27.6	23.6	138	118	60-140	16	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	27.0	23.1	135	116	60-140	15	
1,2-Dichlorobenzene	ug/L	ND	20	20	23.0	20.9	115	105	60-140	9	
1,2-Dichloroethane	ug/L	ND	20	20	22.3	19.7	112	98	60-140	13	
1,2-Dichloropropane	ug/L	ND	20	20	25.7	21.9	128	109	60-140	16	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	21.1	116	106	60-140	10	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.3	21.1	117	105	60-140	10	
1,3-Dichloropropane	ug/L	ND	20	20	27.3	23.8	137	119	60-140	14	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.6	20.1	113	101	60-140	12	
2,2-Dichloropropane	ug/L	ND	20	20	29.0	23.9	145	120	60-140	19	M1
2-Chlorotoluene	ug/L	ND	20	20	23.8	21.7	119	108	60-140	9	
4-Chlorotoluene	ug/L	ND	20	20	23.1	20.9	115	105	60-140	10	
Benzene	ug/L	ND	20	20	25.1	21.7	125	108	60-140	15	
Bromobenzene	ug/L	ND	20	20	23.1	21.2	115	106	60-140	8	
Bromochloromethane	ug/L	ND	20	20	23.5	21.3	118	106	60-140	10	
Bromodichloromethane	ug/L	ND	20	20	23.5	20.2	118	101	60-140	15	
Bromoform	ug/L	ND	20	20	26.3	22.9	131	114	60-140	14	
Bromomethane	ug/L	ND	20	20	23.3	19.3	116	96	60-140	19	
Carbon tetrachloride	ug/L	ND	20	20	27.0	23.5	135	118	60-140	14	
Chlorobenzene	ug/L	ND	20	20	24.4	20.9	122	105	60-140	15	
Chloroethane	ug/L	ND	20	20	23.6	20.9	118	105	60-140	12	
Chloroform	ug/L	2.9	20	20	26.8	23.9	119	105	60-140	12	
Chloromethane	ug/L	ND	20	20	19.7	17.2	99	86	60-140	14	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.9	20.7	119	104	60-140	14	
cis-1,3-Dichloropropene	ug/L	ND	20	20	26.2	22.5	131	112	60-140	15	
Dibromochloromethane	ug/L	ND	20	20	28.0	23.1	140	116	60-140	19	
Dibromomethane	ug/L	ND	20	20	23.9	20.5	120	102	60-140	16	
Dichlorodifluoromethane	ug/L	ND	20	20	16.7	14.4	83	72	60-140	15	
Diisopropyl ether	ug/L	ND	20	20	22.8	19.7	114	99	60-140	14	
Ethylbenzene	ug/L	ND	20	20	24.3	21.3	121	107	60-140	13	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	26.6	24.6	133	123	60-140	8	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.3	21.4	122	107	60-140	13	
m&p-Xylene	ug/L	ND	40	40	49.4	42.9	124	107	60-140	14	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.8	20.0	114	100	60-140	13	
Methylene Chloride	ug/L	ND	20	20	22.8	20.0	114	100	60-140	13	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092615 3092616

Parameter	Units	92509560004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	23.8	22.2	119	111	60-140	7	
n-Propylbenzene	ug/L	ND	20	20	23.3	21.3	117	107	60-140	9	
Naphthalene	ug/L	ND	20	20	22.9	21.0	115	105	60-140	9	
o-Xylene	ug/L	ND	20	20	23.9	21.9	120	109	60-140	9	
sec-Butylbenzene	ug/L	ND	20	20	23.8	21.9	119	109	60-140	8	
Styrene	ug/L	ND	20	20	24.0	21.1	120	105	60-140	13	
tert-Butylbenzene	ug/L	ND	20	20	20.7	18.5	104	92	60-140	12	
Tetrachloroethene	ug/L	ND	20	20	22.0	20.3	110	102	60-140	8	
Toluene	ug/L	ND	20	20	23.0	20.1	115	100	60-140	13	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.8	21.7	124	108	60-140	13	
trans-1,3-Dichloropropene	ug/L	ND	20	20	26.0	22.1	130	111	60-140	16	
Trichloroethene	ug/L	ND	20	20	23.7	21.2	118	106	60-140	11	
Trichlorofluoromethane	ug/L	ND	20	20	22.3	19.8	111	99	60-140	12	
Vinyl chloride	ug/L	ND	20	20	20.7	18.1	104	90	60-140	14	
1,2-Dichloroethane-d4 (S)	%						101	100	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

QC Batch: 585381 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92509560007, 92509560008, 92509560009, 92509560010, 92509560011, 92509560012, 92509560013, 92509560014, 92509560015

METHOD BLANK: 3094105 Matrix: Water

Associated Lab Samples: 92509560007, 92509560008, 92509560009, 92509560010, 92509560011, 92509560012, 92509560013, 92509560014, 92509560015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
1,1-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/08/20 15:06	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/08/20 15:06	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/08/20 15:06	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichloroethane	ug/L	ND	0.50	12/08/20 15:06	
1,2-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
1,3-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
2,2-Dichloropropane	ug/L	ND	0.50	12/08/20 15:06	
2-Chlorotoluene	ug/L	ND	0.50	12/08/20 15:06	
4-Chlorotoluene	ug/L	ND	0.50	12/08/20 15:06	
Benzene	ug/L	ND	0.50	12/08/20 15:06	
Bromobenzene	ug/L	ND	0.50	12/08/20 15:06	
Bromochloromethane	ug/L	ND	0.50	12/08/20 15:06	
Bromodichloromethane	ug/L	ND	0.50	12/08/20 15:06	
Bromoform	ug/L	ND	0.50	12/08/20 15:06	
Bromomethane	ug/L	ND	5.0	12/08/20 15:06	
Carbon tetrachloride	ug/L	ND	0.50	12/08/20 15:06	
Chlorobenzene	ug/L	ND	0.50	12/08/20 15:06	
Chloroethane	ug/L	ND	1.0	12/08/20 15:06	
Chloroform	ug/L	ND	0.50	12/08/20 15:06	
Chloromethane	ug/L	ND	1.0	12/08/20 15:06	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
Dibromochloromethane	ug/L	ND	0.50	12/08/20 15:06	
Dibromomethane	ug/L	ND	0.50	12/08/20 15:06	
Dichlorodifluoromethane	ug/L	ND	0.50	12/08/20 15:06	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

METHOD BLANK: 3094105 Matrix: Water

Associated Lab Samples: 92509560007, 92509560008, 92509560009, 92509560010, 92509560011, 92509560012, 92509560013, 92509560014, 92509560015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	0.50	12/08/20 15:06	
Ethylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/08/20 15:06	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/08/20 15:06	
m&p-Xylene	ug/L	ND	1.0	12/08/20 15:06	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/08/20 15:06	
Methylene Chloride	ug/L	ND	2.0	12/08/20 15:06	
n-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
n-Propylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Naphthalene	ug/L	ND	2.0	12/08/20 15:06	
o-Xylene	ug/L	ND	0.50	12/08/20 15:06	
sec-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Styrene	ug/L	ND	0.50	12/08/20 15:06	
tert-Butylbenzene	ug/L	ND	0.50	12/08/20 15:06	
Tetrachloroethene	ug/L	ND	0.50	12/08/20 15:06	
Toluene	ug/L	ND	0.50	12/08/20 15:06	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/08/20 15:06	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/08/20 15:06	
Trichloroethene	ug/L	ND	0.50	12/08/20 15:06	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/20 15:06	
Vinyl chloride	ug/L	ND	1.0	12/08/20 15:06	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/08/20 15:06	
4-Bromofluorobenzene (S)	%	103	70-130	12/08/20 15:06	
Toluene-d8 (S)	%	102	70-130	12/08/20 15:06	

LABORATORY CONTROL SAMPLE: 3094106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.6	117	60-140	
1,1,1-Trichloroethane	ug/L	50	49.3	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	60-140	
1,1,2-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1-Dichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethene	ug/L	50	47.6	95	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.0	100	60-140	
1,2,3-Trichloropropane	ug/L	50	51.2	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.5	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.9	114	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	60-140	
1,2-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,2-Dichloroethane	ug/L	50	44.6	89	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

LABORATORY CONTROL SAMPLE: 3094106

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	48.7	97	60-140	
1,3-Dichlorobenzene	ug/L	50	48.5	97	60-140	
1,3-Dichloropropane	ug/L	50	54.0	108	60-140	
1,4-Dichlorobenzene	ug/L	50	48.1	96	60-140	
2,2-Dichloropropane	ug/L	50	52.9	106	60-140	
2-Chlorotoluene	ug/L	50	49.5	99	60-140	
4-Chlorotoluene	ug/L	50	48.7	97	60-140	
Benzene	ug/L	50	46.7	93	60-140	
Bromobenzene	ug/L	50	49.4	99	60-140	
Bromochloromethane	ug/L	50	47.2	94	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	56.0	112	60-140	
Bromomethane	ug/L	50	43.3	87	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	48.7	97	60-140	
Chloroethane	ug/L	50	41.3	83	60-140	
Chloroform	ug/L	50	46.2	92	60-140	
Chloromethane	ug/L	50	41.8	84	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	60-140	
Dibromochloromethane	ug/L	50	56.6	113	60-140	
Dibromomethane	ug/L	50	46.3	93	60-140	
Dichlorodifluoromethane	ug/L	50	39.4	79	60-140	
Diisopropyl ether	ug/L	50	46.9	94	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.4	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.6	97	60-140	
m&p-Xylene	ug/L	100	98.0	98	60-140	
Methyl-tert-butyl ether	ug/L	50	46.8	94	60-140	
Methylene Chloride	ug/L	50	43.9	88	60-140	
n-Butylbenzene	ug/L	50	50.2	100	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	49.1	98	60-140	
sec-Butylbenzene	ug/L	50	49.2	98	60-140	
Styrene	ug/L	50	49.1	98	60-140	
tert-Butylbenzene	ug/L	50	41.9	84	60-140	
Tetrachloroethene	ug/L	50	45.6	91	60-140	
Toluene	ug/L	50	44.9	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	60-140	
Trichloroethene	ug/L	50	45.4	91	60-140	
Trichlorofluoromethane	ug/L	50	41.6	83	60-140	
Vinyl chloride	ug/L	50	42.6	85	60-140	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

LABORATORY CONTROL SAMPLE: 3094106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3095116 3095117

Parameter	Units	92509251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	500	518	125	130	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	400	400	448	465	112	116	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	446	450	112	112	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	400	400	416	435	104	109	60-140	5	
1,1-Dichloroethane	ug/L	ND	400	400	424	440	106	110	60-140	4	
1,1-Dichloroethene	ug/L	ND	400	400	430	454	108	114	60-140	5	
1,1-Dichloropropene	ug/L	ND	400	400	447	462	112	116	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	400	400	442	460	111	115	60-140	4	
1,2,3-Trichloropropane	ug/L	ND	400	400	446	448	112	112	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	400	400	426	444	107	111	60-140	4	
1,2,4-Trimethylbenzene	ug/L	270	400	400	713	727	111	114	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	488	464	122	116	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	458	474	115	118	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	400	400	442	460	111	115	60-140	4	
1,2-Dichloroethane	ug/L	ND	400	400	383	409	96	102	60-140	6	
1,2-Dichloropropane	ug/L	ND	400	400	437	453	109	113	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	400	400	522	535	131	134	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	400	400	441	458	110	114	60-140	4	
1,3-Dichloropropane	ug/L	ND	400	400	464	485	116	121	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	400	400	438	453	110	113	60-140	3	
2,2-Dichloropropane	ug/L	ND	400	400	489	511	122	128	60-140	4	
2-Chlorotoluene	ug/L	ND	400	400	459	467	115	117	60-140	2	
4-Chlorotoluene	ug/L	ND	400	400	449	453	112	113	60-140	1	
Benzene	ug/L	3730	400	400	3980	4140	62	102	60-140	4	E
Bromobenzene	ug/L	ND	400	400	447	461	112	115	60-140	3	
Bromochloromethane	ug/L	ND	400	400	399	432	100	108	60-140	8	
Bromodichloromethane	ug/L	ND	400	400	399	418	100	104	60-140	5	
Bromoform	ug/L	ND	400	400	456	473	114	118	60-140	3	
Bromomethane	ug/L	ND	400	400	397	421	99	105	60-140	6	
Carbon tetrachloride	ug/L	ND	400	400	463	477	116	119	60-140	3	
Chlorobenzene	ug/L	ND	400	400	442	453	110	113	60-140	3	
Chloroethane	ug/L	ND	400	400	388	435	97	109	60-140	11	
Chloroform	ug/L	ND	400	400	412	435	103	109	60-140	5	
Chloromethane	ug/L	ND	400	400	371	384	93	96	60-140	3	
cis-1,2-Dichloroethene	ug/L	ND	400	400	421	436	105	109	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	400	400	440	467	110	117	60-140	6	
Dibromochloromethane	ug/L	ND	400	400	477	505	119	126	60-140	6	
Dibromomethane	ug/L	ND	400	400	399	413	100	103	60-140	3	
Dichlorodifluoromethane	ug/L	ND	400	400	298	319	74	80	60-140	7	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3095116 3095117

Parameter	Units	92509251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diisopropyl ether	ug/L	482	400	400	888	922	102	110	60-140	4	
Ethylbenzene	ug/L	406	400	400	829	858	106	113	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	400	400	522	523	131	131	60-140	0	
Isopropylbenzene (Cumene)	ug/L	10.3	400	400	461	466	113	114	60-140	1	
m&p-Xylene	ug/L	1950	800	800	2730	2860	98	113	60-140	4	
Methyl-tert-butyl ether	ug/L	287	400	400	691	714	101	107	60-140	3	
Methylene Chloride	ug/L	ND	400	400	402	413	96	98	60-140	3	
n-Butylbenzene	ug/L	ND	400	400	487	496	122	124	60-140	2	
n-Propylbenzene	ug/L	ND	400	400	476	489	119	122	60-140	3	
Naphthalene	ug/L	68.3	400	400	513	514	111	111	60-140	0	
o-Xylene	ug/L	962	400	400	1360	1420	99	115	60-140	5	
sec-Butylbenzene	ug/L	ND	400	400	466	484	117	121	60-140	4	
Styrene	ug/L	ND	400	400	433	457	108	114	60-140	5	
tert-Butylbenzene	ug/L	ND	400	400	399	410	100	103	60-140	3	
Tetrachloroethene	ug/L	ND	400	400	423	433	106	108	60-140	2	
Toluene	ug/L	3760	400	400	3890	3990	32	57	60-140	3	M1
trans-1,2-Dichloroethene	ug/L	ND	400	400	430	447	108	112	60-140	4	
trans-1,3-Dichloropropene	ug/L	ND	400	400	446	447	111	112	60-140	0	
Trichloroethene	ug/L	ND	400	400	425	435	106	109	60-140	2	
Trichlorofluoromethane	ug/L	ND	400	400	389	409	97	102	60-140	5	
Vinyl chloride	ug/L	ND	400	400	345	363	86	91	60-140	5	
1,2-Dichloroethane-d4 (S)	%						104	102	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (12/3)
Pace Project No.: 92509560

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92509560001	**MW-29**	MADEPV	1590038	MADEP VPH	1590038
92509560002	**MW-38**	MADEPV	1590038	MADEP VPH	1590038
92509560003	**MW-41**	MADEPV	1590038	MADEP VPH	1590038
92509560004	**MW-53**	MADEPV	1590038	MADEP VPH	1590038
92509560005	**MW-54**	MADEPV	1590038	MADEP VPH	1590038
92509560006	**MW-56**	MADEPV	1590673	MADEP VPH	1590673
92509560007	**MW-57**	MADEPV	1590673	MADEP VPH	1590673
92509560008	**MW-61**	MADEPV	1590673	MADEP VPH	1590673
92509560009	**MW-63**	MADEPV	1590673	MADEP VPH	1590673
92509560010	**Dup-1-20201203**	MADEPV	1590673	MADEP VPH	1590673
92509560011	**Dup-2-20201203**	MADEPV	1590673	MADEP VPH	1590673
92509560012	**Dup-3-20201203**	MADEPV	1590673	MADEP VPH	1590673
92509560013	**FB-1-20201203**	MADEPV	1590038	MADEP VPH	1590038
92509560001	**MW-29**	EPA 3010A	585195	EPA 6010D	585200
92509560002	**MW-38**	EPA 3010A	585195	EPA 6010D	585200
92509560003	**MW-41**	EPA 3010A	585195	EPA 6010D	585200
92509560004	**MW-53**	EPA 3010A	585195	EPA 6010D	585200
92509560005	**MW-54**	EPA 3010A	585195	EPA 6010D	585200
92509560006	**MW-56**	EPA 3010A	585195	EPA 6010D	585200
92509560007	**MW-57**	EPA 3010A	585195	EPA 6010D	585200
92509560008	**MW-61**	EPA 3010A	585195	EPA 6010D	585200
92509560009	**MW-63**	EPA 3010A	585195	EPA 6010D	585200
92509560010	**Dup-1-20201203**	EPA 3010A	585195	EPA 6010D	585200
92509560011	**Dup-2-20201203**	EPA 3010A	585195	EPA 6010D	585200
92509560012	**Dup-3-20201203**	EPA 3010A	585195	EPA 6010D	585200
92509560001	**MW-29**	SM 6200B	585040		
92509560002	**MW-38**	SM 6200B	585040		
92509560003	**MW-41**	SM 6200B	585040		
92509560004	**MW-53**	SM 6200B	585040		
92509560005	**MW-54**	SM 6200B	585040		
92509560006	**MW-56**	SM 6200B	585040		
92509560007	**MW-57**	SM 6200B	585381		
92509560008	**MW-61**	SM 6200B	585381		
92509560009	**MW-63**	SM 6200B	585381		
92509560010	**Dup-1-20201203**	SM 6200B	585381		
92509560011	**Dup-2-20201203**	SM 6200B	585381		
92509560012	**Dup-3-20201203**	SM 6200B	585381		
92509560013	**FB-1-20201203**	SM 6200B	585381		
92509560014	**Trip Blank**	SM 6200B	585381		
92509560015	**Trip Blank**	SM 6200B	585381		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 92509560

92509560

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: 12/4/20 LOH

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: 0.6/0.2 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 0.5/0.1

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

USDA Regulated Soil (☒ N/A, water sample)

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

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

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

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

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

Project # WO#: 92509560

PM: NMG Due Date: 12/10/20

CLIENT: 92-AECOM CHA

1/2

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													
3						1										7													
4						1										7													
5						1										7													
6						1										7													
7						1										7													
8						1										7													
9						1										7													
10						1										7													
11						1										7													
12						1										7													

pH Adjustment Log for Preserved Samples

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

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

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

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

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

Project # WO#: 92509560

PM: NMG Due Date: 12/10/20

CLIENT: 92-AECOM CHA

2/2

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	AGIU-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)	VJGK (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																2												
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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	AECOM	Report To:	Andrew Wreschnig	Attention:	
Address:	6000 Fairview Road	Copy To:		Company Name:	
Suite 200, Charlotte, NC 28226				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone: (704)522-0330	Fax	Project Name:	Colonial Pipeline	Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	12518-3

Regulatory Agency	
State / Location	NC

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	
1	MW-29	W	G			12/3	1100		8			X	X						X	X	X			001
2	MW-38						1510																	002
3	MW-41						1325																	003
4	MW-53						1240																	004
5	MW-54						1410																	005
6	MW-56						0945																	006
7	MW-57						1100																	007
8	MW-61						1405																	008
9	MW-63						1515																	009
10	DUP-1-20201203						—																	010
11	DUP-2-20201203						—																	011
12	DUP-3-20201203						—																	012

Requested Analysis Filtered (Y/N)

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Emily R. Love/AECOM	12/3/20	1200	PACE HC	12/3/20	1200	0.5/6.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emily Love

SIGNATURE of SAMPLER: Emily R. Love DATE Signed: 12/3/2020

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical
WWW.PACELABS.COM

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:		Section B Required Project Information:		Section C Invoice Information:	
Company:	AECOM	Report To:	Andrew Wreschnig	Attention:	
Address:	6000 Fairview Road	Copy To:		Company Name:	
Suite 200, Charlotte, NC 28226				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	(704)522-0330 Fax	Project Name:	Colonial Pipeline	Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	12518-3

Regulatory Agency	State / Location
	NC

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: 6200	VPH	Lead	Trip BLANK	Residual Chlorine (Y/N)	
1	FB-1-20201203	WT	G			12/3	1610		4		(2)	(2)	X						X	X	(2)	(2)		do not test for lead
2	Trip Blank	T						Lab Provided														1	X		012
3	Trip Blank	T						Lab Provided														1	X		013
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Emily R Love / AECOM	12/3/20	1700		12/3/20	1700	0.5/0.1	Y	N	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Emily Love					
SIGNATURE of SAMPLER:	Emily R Love	DATE Signed: 12/3/2020				

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 20, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92506028

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506028

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506028

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506028001	**13926A_HC_RD**	MADEP VPH	DWR	6	PAN
		EPA 6010D	BG2	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506028

Sample: 13926A_HC_RD **Lab ID: 92506028001** Collected: 11/12/20 16:55 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/19/20 07:19	11/19/20 07:19		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/19/20 07:19	11/19/20 07:19		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/19/20 07:19	11/19/20 07:19	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/19/20 07:19	11/19/20 07:19	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.6	%	70.0-130	1	11/19/20 07:19	11/19/20 07:19	615-59-8FID	
2,5-Dibromotoluene (PID)	91.6	%	70.0-130	1	11/19/20 07:19	11/19/20 07:19	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	11/14/20 00:58	11/15/20 21:20	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 13:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 13:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 13:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 13:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 13:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 13:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 13:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 13:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 13:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 13:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 13:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 13:47	75-00-3	
Chloroform	**8.2**	ug/L	0.50	1		11/16/20 13:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 13:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 13:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 13:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 13:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 13:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 13:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 13:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 13:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 13:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 13:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 13:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 13:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 13:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 13:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 13:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 13:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 13:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 13:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 13:47	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506028

Sample: 13926A_HC_RD **Lab ID: 92506028001** Collected: 11/12/20 16:55 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 13:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 13:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 13:47	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 13:47	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 13:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 13:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 13:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 13:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 13:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 13:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 13:47	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 13:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 13:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 13:47	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 13:47	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 13:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 13:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 13:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 13:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 13:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 13:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 13:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 13:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 13:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 13:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 13:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 13:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 13:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		11/16/20 13:47	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		11/16/20 13:47	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/16/20 13:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506028

QC Batch: 1578752
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506028001

METHOD BLANK: R3595333-3 Matrix: Water
Associated Lab Samples: 92506028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/19/20 00:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/19/20 00:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/19/20 00:08	
Total VPH	ug/L	ND	100	11/19/20 00:08	
2,5-Dibromotoluene (FID)	%	84.7	70.0-130	11/19/20 00:08	
2,5-Dibromotoluene (PID)	%	82.5	70.0-130	11/19/20 00:08	

LABORATORY CONTROL SAMPLE & LCSD: R3595333-1 R3595333-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1020	86.7	85.0	70.0-130	1.94	25	
Aliphatic (C09-C12)	ug/L	1400	1200	1180	85.7	84.3	70.0-130	1.68	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	157	156	78.5	78.0	70.0-130	0.639	25	
Total VPH	ug/L	2800	2400	2360	85.7	84.3	70.0-130	1.68	25	
2,5-Dibromotoluene (FID)	%				91.3	93.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.8	93.3	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506028

QC Batch: 580349
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92506028001

METHOD BLANK: 3070197 Matrix: Water
Associated Lab Samples: 92506028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/15/20 21:14	

LABORATORY CONTROL SAMPLE: 3070198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070199 3070200

Parameter	Units	92505868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	264	266	105	106	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506028

QC Batch: 580502
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92506028001

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
2,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
2-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
4-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
Benzene	ug/L	ND	0.50	11/16/20 12:36	
Bromobenzene	ug/L	ND	0.50	11/16/20 12:36	
Bromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromodichloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromoform	ug/L	ND	0.50	11/16/20 12:36	
Bromomethane	ug/L	ND	5.0	11/16/20 12:36	
Carbon tetrachloride	ug/L	ND	0.50	11/16/20 12:36	
Chlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
Chloroethane	ug/L	ND	1.0	11/16/20 12:36	
Chloroform	ug/L	ND	0.50	11/16/20 12:36	
Chloromethane	ug/L	ND	1.0	11/16/20 12:36	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Dibromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Dibromomethane	ug/L	ND	0.50	11/16/20 12:36	
Dichlorodifluoromethane	ug/L	ND	0.50	11/16/20 12:36	
Diisopropyl ether	ug/L	ND	0.50	11/16/20 12:36	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506028

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/16/20 12:36	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/16/20 12:36	
m&p-Xylene	ug/L	ND	1.0	11/16/20 12:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/16/20 12:36	
Methylene Chloride	ug/L	ND	2.0	11/16/20 12:36	
n-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
n-Propylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Naphthalene	ug/L	ND	2.0	11/16/20 12:36	
o-Xylene	ug/L	ND	0.50	11/16/20 12:36	
sec-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Styrene	ug/L	ND	0.50	11/16/20 12:36	
tert-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Tetrachloroethene	ug/L	ND	0.50	11/16/20 12:36	
Toluene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Trichloroethene	ug/L	ND	0.50	11/16/20 12:36	
Trichlorofluoromethane	ug/L	ND	1.0	11/16/20 12:36	
Vinyl chloride	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/16/20 12:36	
4-Bromofluorobenzene (S)	%	94	70-130	11/16/20 12:36	
Toluene-d8 (S)	%	100	70-130	11/16/20 12:36	

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.0	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	46.1	92	60-140	
1,1-Dichloroethene	ug/L	50	51.5	103	60-140	
1,1-Dichloropropene	ug/L	50	47.0	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.6	93	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	60-140	
1,2-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,2-Dichloroethane	ug/L	50	41.8	84	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506028

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.0	104	60-140	
1,3-Dichloropropane	ug/L	50	48.8	98	60-140	
1,4-Dichlorobenzene	ug/L	50	51.4	103	60-140	
2,2-Dichloropropane	ug/L	50	49.4	99	60-140	
2-Chlorotoluene	ug/L	50	50.7	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	46.6	93	60-140	
Bromobenzene	ug/L	50	49.3	99	60-140	
Bromochloromethane	ug/L	50	46.4	93	60-140	
Bromodichloromethane	ug/L	50	48.2	96	60-140	
Bromoform	ug/L	50	49.5	99	60-140	
Bromomethane	ug/L	50	56.2	112	60-140	
Carbon tetrachloride	ug/L	50	49.7	99	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	39.5	79	60-140	
Chloroform	ug/L	50	47.5	95	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	51.1	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.4	81	60-140	
Diisopropyl ether	ug/L	50	44.0	88	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.3	85	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	98.7	99	60-140	
Methyl-tert-butyl ether	ug/L	50	45.3	91	60-140	
Methylene Chloride	ug/L	50	43.1	86	60-140	
n-Butylbenzene	ug/L	50	49.9	100	60-140	
n-Propylbenzene	ug/L	50	50.2	100	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	43.6	87	60-140	
Tetrachloroethene	ug/L	50	52.0	104	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	60-140	
Trichloroethene	ug/L	50	50.7	101	60-140	
Trichlorofluoromethane	ug/L	50	42.8	86	60-140	
Vinyl chloride	ug/L	50	40.9	82	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506028

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4180	4260	105	107	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4070	98	102	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3640	3780	91	95	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	4000	4000	3920	3910	98	98	60-140	0	
1,1-Dichloroethane	ug/L	ND	4000	4000	3790	3840	95	96	60-140	1	
1,1-Dichloroethene	ug/L	ND	4000	4000	4370	4170	109	104	60-140	5	
1,1-Dichloropropene	ug/L	ND	4000	4000	3900	3950	98	99	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	3470	3840	87	96	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	4000	4000	3770	3830	94	96	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	3820	4140	96	103	60-140	8	
1,2,4-Trimethylbenzene	ug/L	2800	4000	4000	6810	6970	100	104	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	3890	4140	97	103	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	171	4000	4000	4310	4330	103	104	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4110	4270	103	107	60-140	4	
1,2-Dichloroethane	ug/L	200	4000	4000	3660	3670	87	87	60-140	0	
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3990	98	100	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	4000	4000	5000	5120	125	128	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4210	4370	105	109	60-140	4	
1,3-Dichloropropane	ug/L	ND	4000	4000	3990	4000	100	100	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4190	4340	105	108	60-140	3	
2,2-Dichloropropane	ug/L	ND	4000	4000	3630	3670	91	92	60-140	1	
2-Chlorotoluene	ug/L	ND	4000	4000	4380	4430	110	111	60-140	1	
4-Chlorotoluene	ug/L	ND	4000	4000	4120	4270	103	107	60-140	4	
Benzene	ug/L	7570	4000	4000	11300	11200	93	92	60-140	0	
Bromobenzene	ug/L	ND	4000	4000	4350	4350	109	109	60-140	0	
Bromochloromethane	ug/L	ND	4000	4000	3820	3740	95	93	60-140	2	
Bromodichloromethane	ug/L	ND	4000	4000	3820	3980	95	100	60-140	4	
Bromoform	ug/L	ND	4000	4000	3770	3940	94	99	60-140	4	
Bromomethane	ug/L	ND	4000	4000	3330	4220	83	106	60-140	24	
Carbon tetrachloride	ug/L	ND	4000	4000	4100	4200	103	105	60-140	2	
Chlorobenzene	ug/L	ND	4000	4000	4120	4200	103	105	60-140	2	
Chloroethane	ug/L	ND	4000	4000	3640	3630	91	91	60-140	0	
Chloroform	ug/L	ND	4000	4000	3950	3980	99	99	60-140	1	
Chloromethane	ug/L	ND	4000	4000	2870	3010	72	75	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3700	3770	93	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	3940	3970	99	99	60-140	1	
Dibromochloromethane	ug/L	ND	4000	4000	4110	4240	103	106	60-140	3	
Dibromomethane	ug/L	ND	4000	4000	4190	4070	105	102	60-140	3	
Dichlorodifluoromethane	ug/L	ND	4000	4000	2760	2770	69	69	60-140	0	
Diisopropyl ether	ug/L	4130	4000	4000	7600	7690	87	89	60-140	1	
Ethylbenzene	ug/L	1970	4000	4000	5890	5940	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	3390	3370	85	84	60-140	0	
Isopropylbenzene (Cumene)	ug/L	102	4000	4000	4360	4470	106	109	60-140	3	
m&p-Xylene	ug/L	10600	8000	8000	18600	18700	100	102	60-140	1	
Methyl-tert-butyl ether	ug/L	1030	4000	4000	4750	4670	93	91	60-140	2	
Methylene Chloride	ug/L	ND	4000	4000	3870	3970	97	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506028

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	150	4000	4000	4070	4230	98	102	60-140	4	
n-Propylbenzene	ug/L	ND	4000	4000	4490	4570	112	114	60-140	2	
Naphthalene	ug/L	2150	4000	4000	5030	5550	72	85	60-140	10	
o-Xylene	ug/L	5920	4000	4000	9840	9970	98	101	60-140	1	
sec-Butylbenzene	ug/L	ND	4000	4000	4190	4330	105	108	60-140	3	
Styrene	ug/L	155	4000	4000	4250	4370	102	105	60-140	3	
tert-Butylbenzene	ug/L	ND	4000	4000	3670	3830	92	96	60-140	4	
Tetrachloroethene	ug/L	ND	4000	4000	4300	4430	107	111	60-140	3	
Toluene	ug/L	22800	4000	4000	26000	25800	79	76	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	3890	3920	97	98	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	3800	3930	95	98	60-140	3	
Trichloroethene	ug/L	ND	4000	4000	4230	4210	106	105	60-140	1	
Trichlorofluoromethane	ug/L	ND	4000	4000	3870	3920	97	98	60-140	1	
Vinyl chloride	ug/L	ND	4000	4000	3280	3290	82	82	60-140	0	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506028

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92506028

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506028001	**13926A_HC_RD**	MADEPV	1578752	MADEP VPH	1578752
92506028001	**13926A_HC_RD**	EPA 3010A	580349	EPA 6010D	580362
92506028001	**13926A_HC_RD**	SM 6200B	580502		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

WO# : 92506028

92506028

Company: Apex Companics
Address:
Report To: Andrew Street
Copy To:
Customer Project Name/Number: 2020-LL-2448
Phone:
Email:
Collected By (print): Matthew Fraidi
Collected By (signature):
Sample Disposal:
[ ] Dispose as appropriate [ ] Return
[ ] Archive:
[ ] Hold:

Billing Information:
Email To:
Site Collection Info/Address: 13926 A HC RD
State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [ ] No
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:
Turnaround Date Required: ASAP
Immediately Packed on Ice: [✓] Yes [ ] No
Rush: [✓] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

LAB USE ... Number or ...
Conta...

** 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

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	6200B	MADEP VPH	Lead	Lab Sample # / Comments
3926 A H/C RD	DW	G	11/12	1655				8	X	X	X	92506028 001

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:
- Sulfide Present Y N (NA)
- Lead Acetate Strips:

LAB USE ONLY:

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

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

Lab Tracking #: 2538995

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92T061
Cooler 1 Temp Upon Receipt: 1 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 1 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
[signature] / Apex	11/13/20 1136	[signature]	11/13 1130	Table #:
[signature]	11/13 1434	[signature] Pace	11-13-20 1434	Acctnum: Template: Prelogin:
				PM: PB:

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.

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

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

Project # **WO# : 92506028**

PM: AMB Due Date: 11/18/20

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)	SPST-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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 20, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92506030

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506030

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506030

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506030001	**13835_AC_RD**	MADEP VPH	DWR	6	PAN
		EPA 6010D	BG2	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506030

Sample: 13835_AC_RD **Lab ID: 92506030001** Collected: 11/12/20 14:01 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/19/20 06:46	11/19/20 06:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/19/20 06:46	11/19/20 06:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/19/20 06:46	11/19/20 06:46	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/19/20 06:46	11/19/20 06:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.9	%	70.0-130	1	11/19/20 06:46	11/19/20 06:46	615-59-8FID	
2,5-Dibromotoluene (PID)	92.7	%	70.0-130	1	11/19/20 06:46	11/19/20 06:46	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	11/14/20 00:58	11/15/20 21:23	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 14:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 14:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 14:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 14:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 14:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 14:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 14:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 14:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 14:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/16/20 14:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 14:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 14:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 14:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 14:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 14:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 14:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 14:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 14:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 14:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 14:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:05	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506030

Sample: 13835_AC_RD **Lab ID: 92506030001** Collected: 11/12/20 14:01 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 14:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 14:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 14:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 14:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 14:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 14:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 14:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 14:05	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 14:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 14:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 14:05	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 14:05	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 14:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 14:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 14:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 14:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 14:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 14:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 14:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 14:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 14:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 14:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 14:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 14:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 14:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/16/20 14:05	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		11/16/20 14:05	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/16/20 14:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506030

QC Batch: 1578752
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506030001

METHOD BLANK: R3595333-3 Matrix: Water
Associated Lab Samples: 92506030001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/19/20 00:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/19/20 00:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/19/20 00:08	
Total VPH	ug/L	ND	100	11/19/20 00:08	
2,5-Dibromotoluene (FID)	%	84.7	70.0-130	11/19/20 00:08	
2,5-Dibromotoluene (PID)	%	82.5	70.0-130	11/19/20 00:08	

LABORATORY CONTROL SAMPLE & LCSD: R3595333-1 R3595333-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1020	86.7	85.0	70.0-130	1.94	25	
Aliphatic (C09-C12)	ug/L	1400	1200	1180	85.7	84.3	70.0-130	1.68	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	157	156	78.5	78.0	70.0-130	0.639	25	
Total VPH	ug/L	2800	2400	2360	85.7	84.3	70.0-130	1.68	25	
2,5-Dibromotoluene (FID)	%				91.3	93.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.8	93.3	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506030

QC Batch: 580349
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92506030001

METHOD BLANK: 3070197 Matrix: Water
Associated Lab Samples: 92506030001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/15/20 21:14	

LABORATORY CONTROL SAMPLE: 3070198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070199 3070200

Parameter	Units	92505868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	264	266	105	106	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506030

QC Batch: 580502
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92506030001

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506030001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
2,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
2-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
4-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
Benzene	ug/L	ND	0.50	11/16/20 12:36	
Bromobenzene	ug/L	ND	0.50	11/16/20 12:36	
Bromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromodichloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromoform	ug/L	ND	0.50	11/16/20 12:36	
Bromomethane	ug/L	ND	5.0	11/16/20 12:36	
Carbon tetrachloride	ug/L	ND	0.50	11/16/20 12:36	
Chlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
Chloroethane	ug/L	ND	1.0	11/16/20 12:36	
Chloroform	ug/L	ND	0.50	11/16/20 12:36	
Chloromethane	ug/L	ND	1.0	11/16/20 12:36	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Dibromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Dibromomethane	ug/L	ND	0.50	11/16/20 12:36	
Dichlorodifluoromethane	ug/L	ND	0.50	11/16/20 12:36	
Diisopropyl ether	ug/L	ND	0.50	11/16/20 12:36	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506030

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506030001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/16/20 12:36	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/16/20 12:36	
m&p-Xylene	ug/L	ND	1.0	11/16/20 12:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/16/20 12:36	
Methylene Chloride	ug/L	ND	2.0	11/16/20 12:36	
n-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
n-Propylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Naphthalene	ug/L	ND	2.0	11/16/20 12:36	
o-Xylene	ug/L	ND	0.50	11/16/20 12:36	
sec-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Styrene	ug/L	ND	0.50	11/16/20 12:36	
tert-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Tetrachloroethene	ug/L	ND	0.50	11/16/20 12:36	
Toluene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Trichloroethene	ug/L	ND	0.50	11/16/20 12:36	
Trichlorofluoromethane	ug/L	ND	1.0	11/16/20 12:36	
Vinyl chloride	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/16/20 12:36	
4-Bromofluorobenzene (S)	%	94	70-130	11/16/20 12:36	
Toluene-d8 (S)	%	100	70-130	11/16/20 12:36	

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.0	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	46.1	92	60-140	
1,1-Dichloroethene	ug/L	50	51.5	103	60-140	
1,1-Dichloropropene	ug/L	50	47.0	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.6	93	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	60-140	
1,2-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,2-Dichloroethane	ug/L	50	41.8	84	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506030

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.0	104	60-140	
1,3-Dichloropropane	ug/L	50	48.8	98	60-140	
1,4-Dichlorobenzene	ug/L	50	51.4	103	60-140	
2,2-Dichloropropane	ug/L	50	49.4	99	60-140	
2-Chlorotoluene	ug/L	50	50.7	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	46.6	93	60-140	
Bromobenzene	ug/L	50	49.3	99	60-140	
Bromochloromethane	ug/L	50	46.4	93	60-140	
Bromodichloromethane	ug/L	50	48.2	96	60-140	
Bromoform	ug/L	50	49.5	99	60-140	
Bromomethane	ug/L	50	56.2	112	60-140	
Carbon tetrachloride	ug/L	50	49.7	99	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	39.5	79	60-140	
Chloroform	ug/L	50	47.5	95	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	51.1	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.4	81	60-140	
Diisopropyl ether	ug/L	50	44.0	88	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.3	85	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	98.7	99	60-140	
Methyl-tert-butyl ether	ug/L	50	45.3	91	60-140	
Methylene Chloride	ug/L	50	43.1	86	60-140	
n-Butylbenzene	ug/L	50	49.9	100	60-140	
n-Propylbenzene	ug/L	50	50.2	100	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	43.6	87	60-140	
Tetrachloroethene	ug/L	50	52.0	104	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	60-140	
Trichloroethene	ug/L	50	50.7	101	60-140	
Trichlorofluoromethane	ug/L	50	42.8	86	60-140	
Vinyl chloride	ug/L	50	40.9	82	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506030

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4180	4260	105	107	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4070	98	102	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3640	3780	91	95	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	4000	4000	3920	3910	98	98	60-140	0	
1,1-Dichloroethane	ug/L	ND	4000	4000	3790	3840	95	96	60-140	1	
1,1-Dichloroethene	ug/L	ND	4000	4000	4370	4170	109	104	60-140	5	
1,1-Dichloropropene	ug/L	ND	4000	4000	3900	3950	98	99	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	3470	3840	87	96	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	4000	4000	3770	3830	94	96	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	3820	4140	96	103	60-140	8	
1,2,4-Trimethylbenzene	ug/L	2800	4000	4000	6810	6970	100	104	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	3890	4140	97	103	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	171	4000	4000	4310	4330	103	104	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4110	4270	103	107	60-140	4	
1,2-Dichloroethane	ug/L	200	4000	4000	3660	3670	87	87	60-140	0	
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3990	98	100	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	4000	4000	5000	5120	125	128	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4210	4370	105	109	60-140	4	
1,3-Dichloropropane	ug/L	ND	4000	4000	3990	4000	100	100	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4190	4340	105	108	60-140	3	
2,2-Dichloropropane	ug/L	ND	4000	4000	3630	3670	91	92	60-140	1	
2-Chlorotoluene	ug/L	ND	4000	4000	4380	4430	110	111	60-140	1	
4-Chlorotoluene	ug/L	ND	4000	4000	4120	4270	103	107	60-140	4	
Benzene	ug/L	7570	4000	4000	11300	11200	93	92	60-140	0	
Bromobenzene	ug/L	ND	4000	4000	4350	4350	109	109	60-140	0	
Bromochloromethane	ug/L	ND	4000	4000	3820	3740	95	93	60-140	2	
Bromodichloromethane	ug/L	ND	4000	4000	3820	3980	95	100	60-140	4	
Bromoform	ug/L	ND	4000	4000	3770	3940	94	99	60-140	4	
Bromomethane	ug/L	ND	4000	4000	3330	4220	83	106	60-140	24	
Carbon tetrachloride	ug/L	ND	4000	4000	4100	4200	103	105	60-140	2	
Chlorobenzene	ug/L	ND	4000	4000	4120	4200	103	105	60-140	2	
Chloroethane	ug/L	ND	4000	4000	3640	3630	91	91	60-140	0	
Chloroform	ug/L	ND	4000	4000	3950	3980	99	99	60-140	1	
Chloromethane	ug/L	ND	4000	4000	2870	3010	72	75	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3700	3770	93	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	3940	3970	99	99	60-140	1	
Dibromochloromethane	ug/L	ND	4000	4000	4110	4240	103	106	60-140	3	
Dibromomethane	ug/L	ND	4000	4000	4190	4070	105	102	60-140	3	
Dichlorodifluoromethane	ug/L	ND	4000	4000	2760	2770	69	69	60-140	0	
Diisopropyl ether	ug/L	4130	4000	4000	7600	7690	87	89	60-140	1	
Ethylbenzene	ug/L	1970	4000	4000	5890	5940	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	3390	3370	85	84	60-140	0	
Isopropylbenzene (Cumene)	ug/L	102	4000	4000	4360	4470	106	109	60-140	3	
m&p-Xylene	ug/L	10600	8000	8000	18600	18700	100	102	60-140	1	
Methyl-tert-butyl ether	ug/L	1030	4000	4000	4750	4670	93	91	60-140	2	
Methylene Chloride	ug/L	ND	4000	4000	3870	3970	97	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506030

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	150	4000	4000	4070	4230	98	102	60-140	4	
n-Propylbenzene	ug/L	ND	4000	4000	4490	4570	112	114	60-140	2	
Naphthalene	ug/L	2150	4000	4000	5030	5550	72	85	60-140	10	
o-Xylene	ug/L	5920	4000	4000	9840	9970	98	101	60-140	1	
sec-Butylbenzene	ug/L	ND	4000	4000	4190	4330	105	108	60-140	3	
Styrene	ug/L	155	4000	4000	4250	4370	102	105	60-140	3	
tert-Butylbenzene	ug/L	ND	4000	4000	3670	3830	92	96	60-140	4	
Tetrachloroethene	ug/L	ND	4000	4000	4300	4430	107	111	60-140	3	
Toluene	ug/L	22800	4000	4000	26000	25800	79	76	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	3890	3920	97	98	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	3800	3930	95	98	60-140	3	
Trichloroethene	ug/L	ND	4000	4000	4230	4210	106	105	60-140	1	
Trichlorofluoromethane	ug/L	ND	4000	4000	3870	3920	97	98	60-140	1	
Vinyl chloride	ug/L	ND	4000	4000	3280	3290	82	82	60-140	0	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506030

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92506030

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506030001	**13835_AC_RD**	MADEPV	1578752	MADEP VPH	1578752
92506030001	**13835_AC_RD**	EPA 3010A	580349	EPA 6010D	580362
92506030001	**13835_AC_RD**	SM 6200B	580502		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

WO# : 92506030

92506030

order Number or

ONLY

Company: Apex Companies

Address:

Billing Information:

Report To: Andrew Street

Email To:

Copy To:

Site Collection Info/Address: 13835 ALRD

Customer Project Name/Number: 2020-11-2448

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

Phone:

Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Matthew Fraioli

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature):

Turnaround Date Required: ASAP

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)

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	62CuB	MADEP VPH	Lead
13835 ALRD	DW	G	11/12	1401					X	X	X

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

92506030
001

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

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

Lab Tracking #: 2539034

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92T061
Cooler 1 Temp Upon Receipt: 1.6 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 1.6 oC
Comments:

Relinquished by/Company: (Signature) Matt / Apex	Date/Time: 1136 11/13/20	Received by/Company: (Signature)	Date/Time: 11/13 1720	MTJL LAB USE ONLY	
Relinquished by/Company: (Signature)	Date/Time: 1434 11/13/20 1436	Received by/Company: (Signature) Fed Ex Pace	Date/Time: 11-13-20 1434	Table #:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin: PM: PB:	

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.

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

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

Project # **WO# : 92506030**

PM: AMB Due Date: 11/18/20

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)-504S 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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 20, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92506033

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506033

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506033

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506033001	**13800_HC_RD**	MADEP VPH	DWR	6	PAN
		EPA 6010D	BG2	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506033

Sample: 13800_HC_RD **Lab ID: 92506033001** Collected: 11/12/20 11:35 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/19/20 04:33	11/19/20 04:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/19/20 04:33	11/19/20 04:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/19/20 04:33	11/19/20 04:33	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/19/20 04:33	11/19/20 04:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.9	%	70.0-130	1	11/19/20 04:33	11/19/20 04:33	615-59-8FID	
2,5-Dibromotoluene (PID)	92.6	%	70.0-130	1	11/19/20 04:33	11/19/20 04:33	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**5.4**	ug/L	5.0	1	11/14/20 00:58	11/15/20 21:39	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 14:23	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 14:23	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 14:23	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 14:23	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 14:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 14:23	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:23	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:23	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:23	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 14:23	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 14:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 14:23	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/16/20 14:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 14:23	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 14:23	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 14:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 14:23	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 14:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 14:23	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 14:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 14:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 14:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 14:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:23	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506033

Sample: 13800_HC_RD **Lab ID: 92506033001** Collected: 11/12/20 11:35 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:23	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 14:23	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 14:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 14:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 14:23	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 14:23	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 14:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 14:23	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 14:23	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 14:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 14:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 14:23	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 14:23	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 14:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 14:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 14:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 14:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 14:23	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 14:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 14:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 14:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 14:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 14:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 14:23	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 14:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 14:23	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		11/16/20 14:23	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/16/20 14:23	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/16/20 14:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506033

QC Batch: 1578752
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506033001

METHOD BLANK: R3595333-3 Matrix: Water
Associated Lab Samples: 92506033001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/19/20 00:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/19/20 00:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/19/20 00:08	
Total VPH	ug/L	ND	100	11/19/20 00:08	
2,5-Dibromotoluene (FID)	%	84.7	70.0-130	11/19/20 00:08	
2,5-Dibromotoluene (PID)	%	82.5	70.0-130	11/19/20 00:08	

LABORATORY CONTROL SAMPLE & LCSD: R3595333-1 R3595333-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1020	86.7	85.0	70.0-130	1.94	25	
Aliphatic (C09-C12)	ug/L	1400	1200	1180	85.7	84.3	70.0-130	1.68	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	157	156	78.5	78.0	70.0-130	0.639	25	
Total VPH	ug/L	2800	2400	2360	85.7	84.3	70.0-130	1.68	25	
2,5-Dibromotoluene (FID)	%				91.3	93.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.8	93.3	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506033

QC Batch: 580349
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92506033001

METHOD BLANK: 3070197 Matrix: Water
Associated Lab Samples: 92506033001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/15/20 21:14	

LABORATORY CONTROL SAMPLE: 3070198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070199 3070200

Parameter	Units	92505868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	264	266	105	106	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506033

QC Batch: 580502
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92506033001

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506033001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
2,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
2-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
4-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
Benzene	ug/L	ND	0.50	11/16/20 12:36	
Bromobenzene	ug/L	ND	0.50	11/16/20 12:36	
Bromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromodichloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromoform	ug/L	ND	0.50	11/16/20 12:36	
Bromomethane	ug/L	ND	5.0	11/16/20 12:36	
Carbon tetrachloride	ug/L	ND	0.50	11/16/20 12:36	
Chlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
Chloroethane	ug/L	ND	1.0	11/16/20 12:36	
Chloroform	ug/L	ND	0.50	11/16/20 12:36	
Chloromethane	ug/L	ND	1.0	11/16/20 12:36	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Dibromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Dibromomethane	ug/L	ND	0.50	11/16/20 12:36	
Dichlorodifluoromethane	ug/L	ND	0.50	11/16/20 12:36	
Diisopropyl ether	ug/L	ND	0.50	11/16/20 12:36	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506033

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506033001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/16/20 12:36	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/16/20 12:36	
m&p-Xylene	ug/L	ND	1.0	11/16/20 12:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/16/20 12:36	
Methylene Chloride	ug/L	ND	2.0	11/16/20 12:36	
n-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
n-Propylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Naphthalene	ug/L	ND	2.0	11/16/20 12:36	
o-Xylene	ug/L	ND	0.50	11/16/20 12:36	
sec-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Styrene	ug/L	ND	0.50	11/16/20 12:36	
tert-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Tetrachloroethene	ug/L	ND	0.50	11/16/20 12:36	
Toluene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Trichloroethene	ug/L	ND	0.50	11/16/20 12:36	
Trichlorofluoromethane	ug/L	ND	1.0	11/16/20 12:36	
Vinyl chloride	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/16/20 12:36	
4-Bromofluorobenzene (S)	%	94	70-130	11/16/20 12:36	
Toluene-d8 (S)	%	100	70-130	11/16/20 12:36	

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.0	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	46.1	92	60-140	
1,1-Dichloroethene	ug/L	50	51.5	103	60-140	
1,1-Dichloropropene	ug/L	50	47.0	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.6	93	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	60-140	
1,2-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,2-Dichloroethane	ug/L	50	41.8	84	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506033

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.0	104	60-140	
1,3-Dichloropropane	ug/L	50	48.8	98	60-140	
1,4-Dichlorobenzene	ug/L	50	51.4	103	60-140	
2,2-Dichloropropane	ug/L	50	49.4	99	60-140	
2-Chlorotoluene	ug/L	50	50.7	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	46.6	93	60-140	
Bromobenzene	ug/L	50	49.3	99	60-140	
Bromochloromethane	ug/L	50	46.4	93	60-140	
Bromodichloromethane	ug/L	50	48.2	96	60-140	
Bromoform	ug/L	50	49.5	99	60-140	
Bromomethane	ug/L	50	56.2	112	60-140	
Carbon tetrachloride	ug/L	50	49.7	99	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	39.5	79	60-140	
Chloroform	ug/L	50	47.5	95	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	51.1	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.4	81	60-140	
Diisopropyl ether	ug/L	50	44.0	88	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.3	85	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	98.7	99	60-140	
Methyl-tert-butyl ether	ug/L	50	45.3	91	60-140	
Methylene Chloride	ug/L	50	43.1	86	60-140	
n-Butylbenzene	ug/L	50	49.9	100	60-140	
n-Propylbenzene	ug/L	50	50.2	100	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	43.6	87	60-140	
Tetrachloroethene	ug/L	50	52.0	104	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	60-140	
Trichloroethene	ug/L	50	50.7	101	60-140	
Trichlorofluoromethane	ug/L	50	42.8	86	60-140	
Vinyl chloride	ug/L	50	40.9	82	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506033

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4180	4260	105	107	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4070	98	102	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3640	3780	91	95	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	4000	4000	3920	3910	98	98	60-140	0	
1,1-Dichloroethane	ug/L	ND	4000	4000	3790	3840	95	96	60-140	1	
1,1-Dichloroethene	ug/L	ND	4000	4000	4370	4170	109	104	60-140	5	
1,1-Dichloropropene	ug/L	ND	4000	4000	3900	3950	98	99	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	3470	3840	87	96	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	4000	4000	3770	3830	94	96	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	3820	4140	96	103	60-140	8	
1,2,4-Trimethylbenzene	ug/L	2800	4000	4000	6810	6970	100	104	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	3890	4140	97	103	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	171	4000	4000	4310	4330	103	104	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4110	4270	103	107	60-140	4	
1,2-Dichloroethane	ug/L	200	4000	4000	3660	3670	87	87	60-140	0	
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3990	98	100	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	4000	4000	5000	5120	125	128	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4210	4370	105	109	60-140	4	
1,3-Dichloropropane	ug/L	ND	4000	4000	3990	4000	100	100	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4190	4340	105	108	60-140	3	
2,2-Dichloropropane	ug/L	ND	4000	4000	3630	3670	91	92	60-140	1	
2-Chlorotoluene	ug/L	ND	4000	4000	4380	4430	110	111	60-140	1	
4-Chlorotoluene	ug/L	ND	4000	4000	4120	4270	103	107	60-140	4	
Benzene	ug/L	7570	4000	4000	11300	11200	93	92	60-140	0	
Bromobenzene	ug/L	ND	4000	4000	4350	4350	109	109	60-140	0	
Bromochloromethane	ug/L	ND	4000	4000	3820	3740	95	93	60-140	2	
Bromodichloromethane	ug/L	ND	4000	4000	3820	3980	95	100	60-140	4	
Bromoform	ug/L	ND	4000	4000	3770	3940	94	99	60-140	4	
Bromomethane	ug/L	ND	4000	4000	3330	4220	83	106	60-140	24	
Carbon tetrachloride	ug/L	ND	4000	4000	4100	4200	103	105	60-140	2	
Chlorobenzene	ug/L	ND	4000	4000	4120	4200	103	105	60-140	2	
Chloroethane	ug/L	ND	4000	4000	3640	3630	91	91	60-140	0	
Chloroform	ug/L	ND	4000	4000	3950	3980	99	99	60-140	1	
Chloromethane	ug/L	ND	4000	4000	2870	3010	72	75	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3700	3770	93	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	3940	3970	99	99	60-140	1	
Dibromochloromethane	ug/L	ND	4000	4000	4110	4240	103	106	60-140	3	
Dibromomethane	ug/L	ND	4000	4000	4190	4070	105	102	60-140	3	
Dichlorodifluoromethane	ug/L	ND	4000	4000	2760	2770	69	69	60-140	0	
Diisopropyl ether	ug/L	4130	4000	4000	7600	7690	87	89	60-140	1	
Ethylbenzene	ug/L	1970	4000	4000	5890	5940	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	3390	3370	85	84	60-140	0	
Isopropylbenzene (Cumene)	ug/L	102	4000	4000	4360	4470	106	109	60-140	3	
m&p-Xylene	ug/L	10600	8000	8000	18600	18700	100	102	60-140	1	
Methyl-tert-butyl ether	ug/L	1030	4000	4000	4750	4670	93	91	60-140	2	
Methylene Chloride	ug/L	ND	4000	4000	3870	3970	97	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506033

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	150	4000	4000	4070	4230	98	102	60-140	4	
n-Propylbenzene	ug/L	ND	4000	4000	4490	4570	112	114	60-140	2	
Naphthalene	ug/L	2150	4000	4000	5030	5550	72	85	60-140	10	
o-Xylene	ug/L	5920	4000	4000	9840	9970	98	101	60-140	1	
sec-Butylbenzene	ug/L	ND	4000	4000	4190	4330	105	108	60-140	3	
Styrene	ug/L	155	4000	4000	4250	4370	102	105	60-140	3	
tert-Butylbenzene	ug/L	ND	4000	4000	3670	3830	92	96	60-140	4	
Tetrachloroethene	ug/L	ND	4000	4000	4300	4430	107	111	60-140	3	
Toluene	ug/L	22800	4000	4000	26000	25800	79	76	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	3890	3920	97	98	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	3800	3930	95	98	60-140	3	
Trichloroethene	ug/L	ND	4000	4000	4230	4210	106	105	60-140	1	
Trichlorofluoromethane	ug/L	ND	4000	4000	3870	3920	97	98	60-140	1	
Vinyl chloride	ug/L	ND	4000	4000	3280	3290	82	82	60-140	0	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506033

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92506033

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506033001	**13800_HC_RD**	MADEPV	1578752	MADEP VPH	1578752
92506033001	**13800_HC_RD**	EPA 3010A	580349	EPA 6010D	580362
92506033001	**13800_HC_RD**	SM 6200B	580502		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

WO# : 92506033

92506033

rder Number or

NLY

Company: Apex Companies

Address:

Billing Information:

Report To:

Email To: Andrew Street / Emily Little

Copy To:

Site Collection Info/Address: 13800 Lawther

Customer Project Name/Number: 020-LI-2448

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

Phone:

Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Matthew Fraioli

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature):

Turnaround Date Required: ASAP

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)

** 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 Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 6200B	MADEP VPH	Lead	Lab Profile/Line:
3800 H/C RD	DW	G	11/12	1135				8	X	X	X	92506033 001

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

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

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

Lab Tracking #: 2539052

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92T0062
Cooler 1 Temp Upon Receipt: 1.0 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 1.0 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Apex	1130 11/13/20		1130 11/13/20
	11/13/20 1434	Kaylee Face	11-13-20 1434

MTJL LAB USE ONLY

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

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.

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

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

Project: **WO#: 92506033**

PM: AMB Due Date: 11/18/20

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)	SPST-125 mL Sterile Plastic (N/A – lab)	SPZT-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.

Pace Analytical
www.pacelabs.com

Sample Receiving Non-Conformance Form (NCF)

Date: 11-13-20	Evaluated by: Shakera Rofer
Client: APEX	

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

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		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: Sample ID on containers is 13800 Lawther RD

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:

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 20, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92506038

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506038

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506038

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506038001	**FD-111220**	MADEP VPH	DWR	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92506038002	**Field Blank**	MADEP VPH	DWR	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92506038003	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506038

Sample: FD-111220 **Lab ID: 92506038001** Collected: 11/12/20 00:00 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/19/20 05:06	11/19/20 05:06		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/19/20 05:06	11/19/20 05:06		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/19/20 05:06	11/19/20 05:06	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/19/20 05:06	11/19/20 05:06	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.4	%	70.0-130	1	11/19/20 05:06	11/19/20 05:06	615-59-8FID	
2,5-Dibromotoluene (PID)	94.4	%	70.0-130	1	11/19/20 05:06	11/19/20 05:06	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	11/14/20 00:58	11/15/20 21:43	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 16:46	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 16:46	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 16:46	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 16:46	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 16:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 16:46	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 16:46	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 16:46	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 16:46	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 16:46	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 16:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 16:46	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/16/20 16:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 16:46	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 16:46	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 16:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 16:46	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 16:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 16:46	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 16:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 16:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 16:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 16:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 16:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 16:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 16:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 16:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 16:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 16:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 16:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 16:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 16:46	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506038

Sample: FD-111220 **Lab ID: 92506038001** Collected: 11/12/20 00:00 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 16:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 16:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 16:46	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 16:46	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 16:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 16:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 16:46	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 16:46	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 16:46	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 16:46	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 16:46	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 16:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 16:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 16:46	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 16:46	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 16:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 16:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 16:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 16:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 16:46	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 16:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 16:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 16:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 16:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 16:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 16:46	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 16:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 16:46	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		11/16/20 16:46	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		11/16/20 16:46	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		11/16/20 16:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506038

Sample: Field Blank **Lab ID: 92506038002** Collected: 11/12/20 17:08 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/19/20 05:40	11/19/20 05:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/19/20 05:40	11/19/20 05:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/19/20 05:40	11/19/20 05:40	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/19/20 05:40	11/19/20 05:40	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.9	%	70.0-130	1	11/19/20 05:40	11/19/20 05:40	615-59-8FID	
2,5-Dibromotoluene (PID)	90.2	%	70.0-130	1	11/19/20 05:40	11/19/20 05:40	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	11/14/20 00:58	11/15/20 21:46	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 12:54	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 12:54	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 12:54	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 12:54	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 12:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 12:54	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 12:54	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 12:54	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 12:54	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 12:54	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 12:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 12:54	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/16/20 12:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 12:54	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 12:54	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 12:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 12:54	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 12:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 12:54	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 12:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 12:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 12:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 12:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 12:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 12:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 12:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 12:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 12:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 12:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 12:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 12:54	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506038

Sample: Field Blank **Lab ID: 92506038002** Collected: 11/12/20 17:08 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 12:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 12:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 12:54	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 12:54	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 12:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 12:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 12:54	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 12:54	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 12:54	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 12:54	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 12:54	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 12:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 12:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 12:54	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 12:54	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 12:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 12:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 12:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 12:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 12:54	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 12:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 12:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 12:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 12:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 12:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 12:54	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 12:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 12:54	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/16/20 12:54	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		11/16/20 12:54	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		11/16/20 12:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506038

Sample: Trip Blank **Lab ID: 92506038003** Collected: 11/12/20 00:00 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 13:12	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 13:12	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 13:12	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 13:12	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 13:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 13:12	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 13:12	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 13:12	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 13:12	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 13:12	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 13:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 13:12	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/16/20 13:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 13:12	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 13:12	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 13:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 13:12	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 13:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 13:12	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 13:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 13:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 13:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 13:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 13:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 13:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 13:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 13:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 13:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 13:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 13:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 13:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 13:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 13:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 13:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 13:12	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 13:12	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 13:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 13:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 13:12	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 13:12	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 13:12	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 13:12	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 13:12	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 13:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 13:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 13:12	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506038

Sample: Trip Blank **Lab ID: 92506038003** Collected: 11/12/20 00:00 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 13:12	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 13:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 13:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 13:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 13:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 13:12	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 13:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 13:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 13:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 13:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 13:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 13:12	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 13:12	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 13:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/16/20 13:12	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		11/16/20 13:12	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		11/16/20 13:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506038

QC Batch: 1578752
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506038001, 92506038002

METHOD BLANK: R3595333-3 Matrix: Water

Associated Lab Samples: 92506038001, 92506038002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/19/20 00:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/19/20 00:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/19/20 00:08	
Total VPH	ug/L	ND	100	11/19/20 00:08	
2,5-Dibromotoluene (FID)	%	84.7	70.0-130	11/19/20 00:08	
2,5-Dibromotoluene (PID)	%	82.5	70.0-130	11/19/20 00:08	

LABORATORY CONTROL SAMPLE & LCSD: R3595333-1 R3595333-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1020	86.7	85.0	70.0-130	1.94	25	
Aliphatic (C09-C12)	ug/L	1400	1200	1180	85.7	84.3	70.0-130	1.68	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	157	156	78.5	78.0	70.0-130	0.639	25	
Total VPH	ug/L	2800	2400	2360	85.7	84.3	70.0-130	1.68	25	
2,5-Dibromotoluene (FID)	%				91.3	93.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.8	93.3	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506038

QC Batch: 580349
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92506038001, 92506038002

METHOD BLANK: 3070197 Matrix: Water
Associated Lab Samples: 92506038001, 92506038002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/15/20 21:14	

LABORATORY CONTROL SAMPLE: 3070198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070199 3070200

Parameter	Units	92505868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	264	266	105	106	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506038

QC Batch: 580502 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92506038001, 92506038002, 92506038003

METHOD BLANK: 3070676 Matrix: Water

Associated Lab Samples: 92506038001, 92506038002, 92506038003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
2,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
2-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
4-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
Benzene	ug/L	ND	0.50	11/16/20 12:36	
Bromobenzene	ug/L	ND	0.50	11/16/20 12:36	
Bromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromodichloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromoform	ug/L	ND	0.50	11/16/20 12:36	
Bromomethane	ug/L	ND	5.0	11/16/20 12:36	
Carbon tetrachloride	ug/L	ND	0.50	11/16/20 12:36	
Chlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
Chloroethane	ug/L	ND	1.0	11/16/20 12:36	
Chloroform	ug/L	ND	0.50	11/16/20 12:36	
Chloromethane	ug/L	ND	1.0	11/16/20 12:36	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Dibromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Dibromomethane	ug/L	ND	0.50	11/16/20 12:36	
Dichlorodifluoromethane	ug/L	ND	0.50	11/16/20 12:36	
Diisopropyl ether	ug/L	ND	0.50	11/16/20 12:36	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506038

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506038001, 92506038002, 92506038003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/16/20 12:36	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/16/20 12:36	
m&p-Xylene	ug/L	ND	1.0	11/16/20 12:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/16/20 12:36	
Methylene Chloride	ug/L	ND	2.0	11/16/20 12:36	
n-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
n-Propylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Naphthalene	ug/L	ND	2.0	11/16/20 12:36	
o-Xylene	ug/L	ND	0.50	11/16/20 12:36	
sec-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Styrene	ug/L	ND	0.50	11/16/20 12:36	
tert-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Tetrachloroethene	ug/L	ND	0.50	11/16/20 12:36	
Toluene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Trichloroethene	ug/L	ND	0.50	11/16/20 12:36	
Trichlorofluoromethane	ug/L	ND	1.0	11/16/20 12:36	
Vinyl chloride	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/16/20 12:36	
4-Bromofluorobenzene (S)	%	94	70-130	11/16/20 12:36	
Toluene-d8 (S)	%	100	70-130	11/16/20 12:36	

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.0	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	46.1	92	60-140	
1,1-Dichloroethene	ug/L	50	51.5	103	60-140	
1,1-Dichloropropene	ug/L	50	47.0	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.6	93	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	60-140	
1,2-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,2-Dichloroethane	ug/L	50	41.8	84	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506038

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.0	104	60-140	
1,3-Dichloropropane	ug/L	50	48.8	98	60-140	
1,4-Dichlorobenzene	ug/L	50	51.4	103	60-140	
2,2-Dichloropropane	ug/L	50	49.4	99	60-140	
2-Chlorotoluene	ug/L	50	50.7	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	46.6	93	60-140	
Bromobenzene	ug/L	50	49.3	99	60-140	
Bromochloromethane	ug/L	50	46.4	93	60-140	
Bromodichloromethane	ug/L	50	48.2	96	60-140	
Bromoform	ug/L	50	49.5	99	60-140	
Bromomethane	ug/L	50	56.2	112	60-140	
Carbon tetrachloride	ug/L	50	49.7	99	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	39.5	79	60-140	
Chloroform	ug/L	50	47.5	95	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	51.1	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.4	81	60-140	
Diisopropyl ether	ug/L	50	44.0	88	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.3	85	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	98.7	99	60-140	
Methyl-tert-butyl ether	ug/L	50	45.3	91	60-140	
Methylene Chloride	ug/L	50	43.1	86	60-140	
n-Butylbenzene	ug/L	50	49.9	100	60-140	
n-Propylbenzene	ug/L	50	50.2	100	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	43.6	87	60-140	
Tetrachloroethene	ug/L	50	52.0	104	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	60-140	
Trichloroethene	ug/L	50	50.7	101	60-140	
Trichlorofluoromethane	ug/L	50	42.8	86	60-140	
Vinyl chloride	ug/L	50	40.9	82	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506038

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4180	4260	105	107	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4070	98	102	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3640	3780	91	95	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	4000	4000	3920	3910	98	98	60-140	0	
1,1-Dichloroethane	ug/L	ND	4000	4000	3790	3840	95	96	60-140	1	
1,1-Dichloroethene	ug/L	ND	4000	4000	4370	4170	109	104	60-140	5	
1,1-Dichloropropene	ug/L	ND	4000	4000	3900	3950	98	99	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	3470	3840	87	96	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	4000	4000	3770	3830	94	96	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	3820	4140	96	103	60-140	8	
1,2,4-Trimethylbenzene	ug/L	2800	4000	4000	6810	6970	100	104	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	3890	4140	97	103	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	171	4000	4000	4310	4330	103	104	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4110	4270	103	107	60-140	4	
1,2-Dichloroethane	ug/L	200	4000	4000	3660	3670	87	87	60-140	0	
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3990	98	100	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	4000	4000	5000	5120	125	128	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4210	4370	105	109	60-140	4	
1,3-Dichloropropane	ug/L	ND	4000	4000	3990	4000	100	100	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4190	4340	105	108	60-140	3	
2,2-Dichloropropane	ug/L	ND	4000	4000	3630	3670	91	92	60-140	1	
2-Chlorotoluene	ug/L	ND	4000	4000	4380	4430	110	111	60-140	1	
4-Chlorotoluene	ug/L	ND	4000	4000	4120	4270	103	107	60-140	4	
Benzene	ug/L	7570	4000	4000	11300	11200	93	92	60-140	0	
Bromobenzene	ug/L	ND	4000	4000	4350	4350	109	109	60-140	0	
Bromochloromethane	ug/L	ND	4000	4000	3820	3740	95	93	60-140	2	
Bromodichloromethane	ug/L	ND	4000	4000	3820	3980	95	100	60-140	4	
Bromoform	ug/L	ND	4000	4000	3770	3940	94	99	60-140	4	
Bromomethane	ug/L	ND	4000	4000	3330	4220	83	106	60-140	24	
Carbon tetrachloride	ug/L	ND	4000	4000	4100	4200	103	105	60-140	2	
Chlorobenzene	ug/L	ND	4000	4000	4120	4200	103	105	60-140	2	
Chloroethane	ug/L	ND	4000	4000	3640	3630	91	91	60-140	0	
Chloroform	ug/L	ND	4000	4000	3950	3980	99	99	60-140	1	
Chloromethane	ug/L	ND	4000	4000	2870	3010	72	75	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3700	3770	93	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	3940	3970	99	99	60-140	1	
Dibromochloromethane	ug/L	ND	4000	4000	4110	4240	103	106	60-140	3	
Dibromomethane	ug/L	ND	4000	4000	4190	4070	105	102	60-140	3	
Dichlorodifluoromethane	ug/L	ND	4000	4000	2760	2770	69	69	60-140	0	
Diisopropyl ether	ug/L	4130	4000	4000	7600	7690	87	89	60-140	1	
Ethylbenzene	ug/L	1970	4000	4000	5890	5940	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	3390	3370	85	84	60-140	0	
Isopropylbenzene (Cumene)	ug/L	102	4000	4000	4360	4470	106	109	60-140	3	
m&p-Xylene	ug/L	10600	8000	8000	18600	18700	100	102	60-140	1	
Methyl-tert-butyl ether	ug/L	1030	4000	4000	4750	4670	93	91	60-140	2	
Methylene Chloride	ug/L	ND	4000	4000	3870	3970	97	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506038

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	150	4000	4000	4070	4230	98	102	60-140	4	
n-Propylbenzene	ug/L	ND	4000	4000	4490	4570	112	114	60-140	2	
Naphthalene	ug/L	2150	4000	4000	5030	5550	72	85	60-140	10	
o-Xylene	ug/L	5920	4000	4000	9840	9970	98	101	60-140	1	
sec-Butylbenzene	ug/L	ND	4000	4000	4190	4330	105	108	60-140	3	
Styrene	ug/L	155	4000	4000	4250	4370	102	105	60-140	3	
tert-Butylbenzene	ug/L	ND	4000	4000	3670	3830	92	96	60-140	4	
Tetrachloroethene	ug/L	ND	4000	4000	4300	4430	107	111	60-140	3	
Toluene	ug/L	22800	4000	4000	26000	25800	79	76	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	3890	3920	97	98	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	3800	3930	95	98	60-140	3	
Trichloroethene	ug/L	ND	4000	4000	4230	4210	106	105	60-140	1	
Trichlorofluoromethane	ug/L	ND	4000	4000	3870	3920	97	98	60-140	1	
Vinyl chloride	ug/L	ND	4000	4000	3280	3290	82	82	60-140	0	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506038

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92506038

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506038001	**FD-111220**	MADEPV	1578752	MADEP VPH	1578752
92506038002	**Field Blank**	MADEPV	1578752	MADEP VPH	1578752
92506038001	**FD-111220**	EPA 3010A	580349	EPA 6010D	580362
92506038002	**Field Blank**	EPA 3010A	580349	EPA 6010D	580362
92506038001	**FD-111220**	SM 6200B	580502		
92506038002	**Field Blank**	SM 6200B	580502		
92506038003	**Trip Blank**	SM 6200B	580502		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

WO# : 92506038

92506038

LAB U

Number or

Conta

Company: Apex Companies

Billing Information:

Address:

Report To: Andrew Street

Email To:

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: 2020-LI-2448

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

Phone:

Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Matthew Fraioli

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature):

Turnaround Date Required: ASAP

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)

** 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 Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: G2CWB	MADEP VPH	Lead	Lab Profile/Line:
FD-111220	DW	G	11/12					8	X	X	X	001
Field Blank		G	11/12	1708				8	X	X	X	002
Trip Blank								2	X			003

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

92506038

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

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

Lab Tracking #: 2538996

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92106611
Cooler 1 Temp Upon Receipt: 1.6 oC
Cooler 1 Therm Corr. Factor: .6 oC
Cooler 1 Corrected Temp: 1.6 oC
Comments:

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

Non Conformance(s): YES / (NO)

Page: _____ of: _____

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Apex	11/13/20 1130		11/13/20 1130
	11/13/20 1434	Kaper Pace	11/13/20 1434

MTJL LAB USE ONLY

Table #:
Acctnum:
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.

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

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

Project **WO# : 92506038**

PM: AMB Due Date: 11/18/20

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)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																7													
2																7													
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 20, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92506044

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506044

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506044

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506044001	**13945_AC_RD**	MADEP VPH	DWR	6	PAN
		EPA 6010D	BG2	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506044

Sample: 13945_AC_RD **Lab ID: 92506044001** Collected: 11/12/20 12:30 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/19/20 06:13	11/19/20 06:13		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/19/20 06:13	11/19/20 06:13		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/19/20 06:13	11/19/20 06:13	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/19/20 06:13	11/19/20 06:13	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.6	%	70.0-130	1	11/19/20 06:13	11/19/20 06:13	615-59-8FID	
2,5-Dibromotoluene (PID)	89.7	%	70.0-130	1	11/19/20 06:13	11/19/20 06:13	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	11/14/20 00:58	11/15/20 21:49	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 14:41	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 14:41	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 14:41	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 14:41	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 14:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 14:41	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:41	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:41	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:41	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 14:41	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 14:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 14:41	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/16/20 14:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 14:41	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 14:41	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 14:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 14:41	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 14:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 14:41	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 14:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 14:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 14:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 14:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:41	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506044

Sample: 13945_AC_RD **Lab ID: 92506044001** Collected: 11/12/20 12:30 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:41	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 14:41	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 14:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 14:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 14:41	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 14:41	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 14:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 14:41	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 14:41	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 14:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 14:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 14:41	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 14:41	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 14:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 14:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 14:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 14:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 14:41	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 14:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 14:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 14:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 14:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 14:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 14:41	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 14:41	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 14:41	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/16/20 14:41	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		11/16/20 14:41	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/16/20 14:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506044

QC Batch: 1578752
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506044001

METHOD BLANK: R3595333-3 Matrix: Water
Associated Lab Samples: 92506044001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/19/20 00:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/19/20 00:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/19/20 00:08	
Total VPH	ug/L	ND	100	11/19/20 00:08	
2,5-Dibromotoluene (FID)	%	84.7	70.0-130	11/19/20 00:08	
2,5-Dibromotoluene (PID)	%	82.5	70.0-130	11/19/20 00:08	

LABORATORY CONTROL SAMPLE & LCSD: R3595333-1 R3595333-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1020	86.7	85.0	70.0-130	1.94	25	
Aliphatic (C09-C12)	ug/L	1400	1200	1180	85.7	84.3	70.0-130	1.68	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	157	156	78.5	78.0	70.0-130	0.639	25	
Total VPH	ug/L	2800	2400	2360	85.7	84.3	70.0-130	1.68	25	
2,5-Dibromotoluene (FID)	%				91.3	93.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.8	93.3	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506044

QC Batch: 580349
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92506044001

METHOD BLANK: 3070197 Matrix: Water
Associated Lab Samples: 92506044001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/15/20 21:14	

LABORATORY CONTROL SAMPLE: 3070198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070199 3070200

Parameter	Units	92505868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	264	266	105	106	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506044

QC Batch: 580502
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92506044001

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506044001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
2,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
2-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
4-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
Benzene	ug/L	ND	0.50	11/16/20 12:36	
Bromobenzene	ug/L	ND	0.50	11/16/20 12:36	
Bromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromodichloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromoform	ug/L	ND	0.50	11/16/20 12:36	
Bromomethane	ug/L	ND	5.0	11/16/20 12:36	
Carbon tetrachloride	ug/L	ND	0.50	11/16/20 12:36	
Chlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
Chloroethane	ug/L	ND	1.0	11/16/20 12:36	
Chloroform	ug/L	ND	0.50	11/16/20 12:36	
Chloromethane	ug/L	ND	1.0	11/16/20 12:36	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Dibromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Dibromomethane	ug/L	ND	0.50	11/16/20 12:36	
Dichlorodifluoromethane	ug/L	ND	0.50	11/16/20 12:36	
Diisopropyl ether	ug/L	ND	0.50	11/16/20 12:36	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506044

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506044001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/16/20 12:36	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/16/20 12:36	
m&p-Xylene	ug/L	ND	1.0	11/16/20 12:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/16/20 12:36	
Methylene Chloride	ug/L	ND	2.0	11/16/20 12:36	
n-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
n-Propylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Naphthalene	ug/L	ND	2.0	11/16/20 12:36	
o-Xylene	ug/L	ND	0.50	11/16/20 12:36	
sec-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Styrene	ug/L	ND	0.50	11/16/20 12:36	
tert-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Tetrachloroethene	ug/L	ND	0.50	11/16/20 12:36	
Toluene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Trichloroethene	ug/L	ND	0.50	11/16/20 12:36	
Trichlorofluoromethane	ug/L	ND	1.0	11/16/20 12:36	
Vinyl chloride	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/16/20 12:36	
4-Bromofluorobenzene (S)	%	94	70-130	11/16/20 12:36	
Toluene-d8 (S)	%	100	70-130	11/16/20 12:36	

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.0	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	46.1	92	60-140	
1,1-Dichloroethene	ug/L	50	51.5	103	60-140	
1,1-Dichloropropene	ug/L	50	47.0	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.6	93	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	60-140	
1,2-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,2-Dichloroethane	ug/L	50	41.8	84	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506044

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.0	104	60-140	
1,3-Dichloropropane	ug/L	50	48.8	98	60-140	
1,4-Dichlorobenzene	ug/L	50	51.4	103	60-140	
2,2-Dichloropropane	ug/L	50	49.4	99	60-140	
2-Chlorotoluene	ug/L	50	50.7	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	46.6	93	60-140	
Bromobenzene	ug/L	50	49.3	99	60-140	
Bromochloromethane	ug/L	50	46.4	93	60-140	
Bromodichloromethane	ug/L	50	48.2	96	60-140	
Bromoform	ug/L	50	49.5	99	60-140	
Bromomethane	ug/L	50	56.2	112	60-140	
Carbon tetrachloride	ug/L	50	49.7	99	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	39.5	79	60-140	
Chloroform	ug/L	50	47.5	95	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	51.1	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.4	81	60-140	
Diisopropyl ether	ug/L	50	44.0	88	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.3	85	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	98.7	99	60-140	
Methyl-tert-butyl ether	ug/L	50	45.3	91	60-140	
Methylene Chloride	ug/L	50	43.1	86	60-140	
n-Butylbenzene	ug/L	50	49.9	100	60-140	
n-Propylbenzene	ug/L	50	50.2	100	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	43.6	87	60-140	
Tetrachloroethene	ug/L	50	52.0	104	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	60-140	
Trichloroethene	ug/L	50	50.7	101	60-140	
Trichlorofluoromethane	ug/L	50	42.8	86	60-140	
Vinyl chloride	ug/L	50	40.9	82	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506044

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4180	4260	105	107	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4070	98	102	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3640	3780	91	95	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	4000	4000	3920	3910	98	98	60-140	0	
1,1-Dichloroethane	ug/L	ND	4000	4000	3790	3840	95	96	60-140	1	
1,1-Dichloroethene	ug/L	ND	4000	4000	4370	4170	109	104	60-140	5	
1,1-Dichloropropene	ug/L	ND	4000	4000	3900	3950	98	99	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	3470	3840	87	96	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	4000	4000	3770	3830	94	96	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	3820	4140	96	103	60-140	8	
1,2,4-Trimethylbenzene	ug/L	2800	4000	4000	6810	6970	100	104	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	3890	4140	97	103	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	171	4000	4000	4310	4330	103	104	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4110	4270	103	107	60-140	4	
1,2-Dichloroethane	ug/L	200	4000	4000	3660	3670	87	87	60-140	0	
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3990	98	100	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	4000	4000	5000	5120	125	128	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4210	4370	105	109	60-140	4	
1,3-Dichloropropane	ug/L	ND	4000	4000	3990	4000	100	100	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4190	4340	105	108	60-140	3	
2,2-Dichloropropane	ug/L	ND	4000	4000	3630	3670	91	92	60-140	1	
2-Chlorotoluene	ug/L	ND	4000	4000	4380	4430	110	111	60-140	1	
4-Chlorotoluene	ug/L	ND	4000	4000	4120	4270	103	107	60-140	4	
Benzene	ug/L	7570	4000	4000	11300	11200	93	92	60-140	0	
Bromobenzene	ug/L	ND	4000	4000	4350	4350	109	109	60-140	0	
Bromochloromethane	ug/L	ND	4000	4000	3820	3740	95	93	60-140	2	
Bromodichloromethane	ug/L	ND	4000	4000	3820	3980	95	100	60-140	4	
Bromoform	ug/L	ND	4000	4000	3770	3940	94	99	60-140	4	
Bromomethane	ug/L	ND	4000	4000	3330	4220	83	106	60-140	24	
Carbon tetrachloride	ug/L	ND	4000	4000	4100	4200	103	105	60-140	2	
Chlorobenzene	ug/L	ND	4000	4000	4120	4200	103	105	60-140	2	
Chloroethane	ug/L	ND	4000	4000	3640	3630	91	91	60-140	0	
Chloroform	ug/L	ND	4000	4000	3950	3980	99	99	60-140	1	
Chloromethane	ug/L	ND	4000	4000	2870	3010	72	75	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3700	3770	93	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	3940	3970	99	99	60-140	1	
Dibromochloromethane	ug/L	ND	4000	4000	4110	4240	103	106	60-140	3	
Dibromomethane	ug/L	ND	4000	4000	4190	4070	105	102	60-140	3	
Dichlorodifluoromethane	ug/L	ND	4000	4000	2760	2770	69	69	60-140	0	
Diisopropyl ether	ug/L	4130	4000	4000	7600	7690	87	89	60-140	1	
Ethylbenzene	ug/L	1970	4000	4000	5890	5940	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	3390	3370	85	84	60-140	0	
Isopropylbenzene (Cumene)	ug/L	102	4000	4000	4360	4470	106	109	60-140	3	
m&p-Xylene	ug/L	10600	8000	8000	18600	18700	100	102	60-140	1	
Methyl-tert-butyl ether	ug/L	1030	4000	4000	4750	4670	93	91	60-140	2	
Methylene Chloride	ug/L	ND	4000	4000	3870	3970	97	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506044

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	150	4000	4000	4070	4230	98	102	60-140	4	
n-Propylbenzene	ug/L	ND	4000	4000	4490	4570	112	114	60-140	2	
Naphthalene	ug/L	2150	4000	4000	5030	5550	72	85	60-140	10	
o-Xylene	ug/L	5920	4000	4000	9840	9970	98	101	60-140	1	
sec-Butylbenzene	ug/L	ND	4000	4000	4190	4330	105	108	60-140	3	
Styrene	ug/L	155	4000	4000	4250	4370	102	105	60-140	3	
tert-Butylbenzene	ug/L	ND	4000	4000	3670	3830	92	96	60-140	4	
Tetrachloroethene	ug/L	ND	4000	4000	4300	4430	107	111	60-140	3	
Toluene	ug/L	22800	4000	4000	26000	25800	79	76	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	3890	3920	97	98	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	3800	3930	95	98	60-140	3	
Trichloroethene	ug/L	ND	4000	4000	4230	4210	106	105	60-140	1	
Trichlorofluoromethane	ug/L	ND	4000	4000	3870	3920	97	98	60-140	1	
Vinyl chloride	ug/L	ND	4000	4000	3280	3290	82	82	60-140	0	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506044

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92506044

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506044001	**13945_AC_RD**	MADEPV	1578752	MADEP VPH	1578752
92506044001	**13945_AC_RD**	EPA 3010A	580349	EPA 6010D	580362
92506044001	**13945_AC_RD**	SM 6200B	580502		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE

WO# : 92506044

92506044

Company: Apex Companies

Billing Information:

Address:

Email To: Andrew Street

Phone:

Site Collection Info/Address: 13945 A/C RD

Project Name/Number: 20-LI-2448

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

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Ethan Fraioli

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required: ASAP

Immediately Packed on Ice: [✓] Yes [ ] No

Disposal: [ ] Dispose as appropriate [ ] Return
[ ] Archive: _____

Rush: [✓] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

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

Analysis: _____

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 _____

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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: G2600	MADEP VPH	Lead
13945 A/C RD	DW	G	11/12	1230				8	X	X	X

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: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

92506044
001

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

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

Lab Tracking #: 2539032

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: T170069
Cooler 1 Temp Upon Receipt: 1.8 oC
Cooler 1 Temp Corr. Factor: .8 oC
Cooler 1 Corrected Temp: 1.0 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)
Apex	11/13/20 1130	
	11/13/20 1434	Pace

Date/Time:	MTJL LAB USE ONLY
11/13/20 1130	Table #:
	Acctnum:
11/13/20 1434	Template:
	Prelogin:
	PM:
	PB:

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.

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

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

Project # WO#: 92506044

PM: AMB Due Date: 11/18/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 20, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92506047

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506047

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506047

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506047001	**14401_HC_RD**	MADEP VPH	DWR	6	PAN
		EPA 6010D	BG2	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506047

Sample: 14401_HC_RD **Lab ID: 92506047001** Collected: 11/12/20 15:21 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/19/20 02:20	11/19/20 02:20		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/19/20 02:20	11/19/20 02:20		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/19/20 02:20	11/19/20 02:20	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/19/20 02:20	11/19/20 02:20	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.2	%	70.0-130	1	11/19/20 02:20	11/19/20 02:20	615-59-8FID	
2,5-Dibromotoluene (PID)	90.4	%	70.0-130	1	11/19/20 02:20	11/19/20 02:20	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	11/14/20 00:58	11/15/20 21:52	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 14:59	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 14:59	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 14:59	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 14:59	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 14:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 14:59	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:59	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:59	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 14:59	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 14:59	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 14:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 14:59	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/16/20 14:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 14:59	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 14:59	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 14:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 14:59	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 14:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 14:59	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 14:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 14:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 14:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 14:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 14:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 14:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 14:59	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506047

Sample: 14401_HC_RD **Lab ID: 92506047001** Collected: 11/12/20 15:21 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 14:59	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 14:59	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 14:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 14:59	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 14:59	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 14:59	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 14:59	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 14:59	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 14:59	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 14:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 14:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 14:59	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 14:59	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 14:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 14:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 14:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 14:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 14:59	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 14:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 14:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 14:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 14:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 14:59	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 14:59	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 14:59	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 14:59	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/16/20 14:59	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		11/16/20 14:59	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/16/20 14:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506047

QC Batch: 1578752
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506047001

METHOD BLANK: R3595333-3 Matrix: Water
Associated Lab Samples: 92506047001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/19/20 00:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/19/20 00:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/19/20 00:08	
Total VPH	ug/L	ND	100	11/19/20 00:08	
2,5-Dibromotoluene (FID)	%	84.7	70.0-130	11/19/20 00:08	
2,5-Dibromotoluene (PID)	%	82.5	70.0-130	11/19/20 00:08	

LABORATORY CONTROL SAMPLE & LCSD: R3595333-1 R3595333-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1020	86.7	85.0	70.0-130	1.94	25	
Aliphatic (C09-C12)	ug/L	1400	1200	1180	85.7	84.3	70.0-130	1.68	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	157	156	78.5	78.0	70.0-130	0.639	25	
Total VPH	ug/L	2800	2400	2360	85.7	84.3	70.0-130	1.68	25	
2,5-Dibromotoluene (FID)	%				91.3	93.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.8	93.3	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506047

QC Batch: 580349
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92506047001

METHOD BLANK: 3070197 Matrix: Water
Associated Lab Samples: 92506047001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/15/20 21:14	

LABORATORY CONTROL SAMPLE: 3070198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070199 3070200

Parameter	Units	92505868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	264	266	105	106	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506047

QC Batch: 580502
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92506047001

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506047001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
2,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
2-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
4-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
Benzene	ug/L	ND	0.50	11/16/20 12:36	
Bromobenzene	ug/L	ND	0.50	11/16/20 12:36	
Bromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromodichloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromoform	ug/L	ND	0.50	11/16/20 12:36	
Bromomethane	ug/L	ND	5.0	11/16/20 12:36	
Carbon tetrachloride	ug/L	ND	0.50	11/16/20 12:36	
Chlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
Chloroethane	ug/L	ND	1.0	11/16/20 12:36	
Chloroform	ug/L	ND	0.50	11/16/20 12:36	
Chloromethane	ug/L	ND	1.0	11/16/20 12:36	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Dibromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Dibromomethane	ug/L	ND	0.50	11/16/20 12:36	
Dichlorodifluoromethane	ug/L	ND	0.50	11/16/20 12:36	
Diisopropyl ether	ug/L	ND	0.50	11/16/20 12:36	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506047

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506047001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/16/20 12:36	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/16/20 12:36	
m&p-Xylene	ug/L	ND	1.0	11/16/20 12:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/16/20 12:36	
Methylene Chloride	ug/L	ND	2.0	11/16/20 12:36	
n-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
n-Propylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Naphthalene	ug/L	ND	2.0	11/16/20 12:36	
o-Xylene	ug/L	ND	0.50	11/16/20 12:36	
sec-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Styrene	ug/L	ND	0.50	11/16/20 12:36	
tert-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Tetrachloroethene	ug/L	ND	0.50	11/16/20 12:36	
Toluene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Trichloroethene	ug/L	ND	0.50	11/16/20 12:36	
Trichlorofluoromethane	ug/L	ND	1.0	11/16/20 12:36	
Vinyl chloride	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/16/20 12:36	
4-Bromofluorobenzene (S)	%	94	70-130	11/16/20 12:36	
Toluene-d8 (S)	%	100	70-130	11/16/20 12:36	

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.0	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	46.1	92	60-140	
1,1-Dichloroethene	ug/L	50	51.5	103	60-140	
1,1-Dichloropropene	ug/L	50	47.0	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.6	93	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	60-140	
1,2-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,2-Dichloroethane	ug/L	50	41.8	84	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506047

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.0	104	60-140	
1,3-Dichloropropane	ug/L	50	48.8	98	60-140	
1,4-Dichlorobenzene	ug/L	50	51.4	103	60-140	
2,2-Dichloropropane	ug/L	50	49.4	99	60-140	
2-Chlorotoluene	ug/L	50	50.7	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	46.6	93	60-140	
Bromobenzene	ug/L	50	49.3	99	60-140	
Bromochloromethane	ug/L	50	46.4	93	60-140	
Bromodichloromethane	ug/L	50	48.2	96	60-140	
Bromoform	ug/L	50	49.5	99	60-140	
Bromomethane	ug/L	50	56.2	112	60-140	
Carbon tetrachloride	ug/L	50	49.7	99	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	39.5	79	60-140	
Chloroform	ug/L	50	47.5	95	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	51.1	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.4	81	60-140	
Diisopropyl ether	ug/L	50	44.0	88	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.3	85	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	98.7	99	60-140	
Methyl-tert-butyl ether	ug/L	50	45.3	91	60-140	
Methylene Chloride	ug/L	50	43.1	86	60-140	
n-Butylbenzene	ug/L	50	49.9	100	60-140	
n-Propylbenzene	ug/L	50	50.2	100	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	43.6	87	60-140	
Tetrachloroethene	ug/L	50	52.0	104	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	60-140	
Trichloroethene	ug/L	50	50.7	101	60-140	
Trichlorofluoromethane	ug/L	50	42.8	86	60-140	
Vinyl chloride	ug/L	50	40.9	82	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506047

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4180	4260	105	107	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4070	98	102	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3640	3780	91	95	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	4000	4000	3920	3910	98	98	60-140	0	
1,1-Dichloroethane	ug/L	ND	4000	4000	3790	3840	95	96	60-140	1	
1,1-Dichloroethene	ug/L	ND	4000	4000	4370	4170	109	104	60-140	5	
1,1-Dichloropropene	ug/L	ND	4000	4000	3900	3950	98	99	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	3470	3840	87	96	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	4000	4000	3770	3830	94	96	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	3820	4140	96	103	60-140	8	
1,2,4-Trimethylbenzene	ug/L	2800	4000	4000	6810	6970	100	104	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	3890	4140	97	103	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	171	4000	4000	4310	4330	103	104	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4110	4270	103	107	60-140	4	
1,2-Dichloroethane	ug/L	200	4000	4000	3660	3670	87	87	60-140	0	
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3990	98	100	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	4000	4000	5000	5120	125	128	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4210	4370	105	109	60-140	4	
1,3-Dichloropropane	ug/L	ND	4000	4000	3990	4000	100	100	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4190	4340	105	108	60-140	3	
2,2-Dichloropropane	ug/L	ND	4000	4000	3630	3670	91	92	60-140	1	
2-Chlorotoluene	ug/L	ND	4000	4000	4380	4430	110	111	60-140	1	
4-Chlorotoluene	ug/L	ND	4000	4000	4120	4270	103	107	60-140	4	
Benzene	ug/L	7570	4000	4000	11300	11200	93	92	60-140	0	
Bromobenzene	ug/L	ND	4000	4000	4350	4350	109	109	60-140	0	
Bromochloromethane	ug/L	ND	4000	4000	3820	3740	95	93	60-140	2	
Bromodichloromethane	ug/L	ND	4000	4000	3820	3980	95	100	60-140	4	
Bromoform	ug/L	ND	4000	4000	3770	3940	94	99	60-140	4	
Bromomethane	ug/L	ND	4000	4000	3330	4220	83	106	60-140	24	
Carbon tetrachloride	ug/L	ND	4000	4000	4100	4200	103	105	60-140	2	
Chlorobenzene	ug/L	ND	4000	4000	4120	4200	103	105	60-140	2	
Chloroethane	ug/L	ND	4000	4000	3640	3630	91	91	60-140	0	
Chloroform	ug/L	ND	4000	4000	3950	3980	99	99	60-140	1	
Chloromethane	ug/L	ND	4000	4000	2870	3010	72	75	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3700	3770	93	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	3940	3970	99	99	60-140	1	
Dibromochloromethane	ug/L	ND	4000	4000	4110	4240	103	106	60-140	3	
Dibromomethane	ug/L	ND	4000	4000	4190	4070	105	102	60-140	3	
Dichlorodifluoromethane	ug/L	ND	4000	4000	2760	2770	69	69	60-140	0	
Diisopropyl ether	ug/L	4130	4000	4000	7600	7690	87	89	60-140	1	
Ethylbenzene	ug/L	1970	4000	4000	5890	5940	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	3390	3370	85	84	60-140	0	
Isopropylbenzene (Cumene)	ug/L	102	4000	4000	4360	4470	106	109	60-140	3	
m&p-Xylene	ug/L	10600	8000	8000	18600	18700	100	102	60-140	1	
Methyl-tert-butyl ether	ug/L	1030	4000	4000	4750	4670	93	91	60-140	2	
Methylene Chloride	ug/L	ND	4000	4000	3870	3970	97	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506047

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	150	4000	4000	4070	4230	98	102	60-140	4	
n-Propylbenzene	ug/L	ND	4000	4000	4490	4570	112	114	60-140	2	
Naphthalene	ug/L	2150	4000	4000	5030	5550	72	85	60-140	10	
o-Xylene	ug/L	5920	4000	4000	9840	9970	98	101	60-140	1	
sec-Butylbenzene	ug/L	ND	4000	4000	4190	4330	105	108	60-140	3	
Styrene	ug/L	155	4000	4000	4250	4370	102	105	60-140	3	
tert-Butylbenzene	ug/L	ND	4000	4000	3670	3830	92	96	60-140	4	
Tetrachloroethene	ug/L	ND	4000	4000	4300	4430	107	111	60-140	3	
Toluene	ug/L	22800	4000	4000	26000	25800	79	76	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	3890	3920	97	98	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	3800	3930	95	98	60-140	3	
Trichloroethene	ug/L	ND	4000	4000	4230	4210	106	105	60-140	1	
Trichlorofluoromethane	ug/L	ND	4000	4000	3870	3920	97	98	60-140	1	
Vinyl chloride	ug/L	ND	4000	4000	3280	3290	82	82	60-140	0	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506047

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92506047

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506047001	**14401_HC_RD**	MADEPV	1578752	MADEP VPH	1578752
92506047001	**14401_HC_RD**	EPA 3010A	580349	EPA 6010D	580362
92506047001	**14401_HC_RD**	SM 6200B	580502		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

WO# : 92506047

92506047

LAB US ... lumber or

ny: Apex Companies	Billing Information:
:	
To: Trew Street	Email To:
:	Site Collection Info/Address: Collect HICRD
er Project Name/Number: 20-LT-2448	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
	Site/Facility ID #:
	Compliance Monitoring? [ ] Yes [ ] No
d By (print): Shaw Fracile	Purchase Order #: Quote #:
	DW PWS ID #: DW Location Code:
d By (signature):	Turnaround Date Required: ASAP
	Immediately Packed on Ice: [✓] Yes [ ] No
Disposal: se as appropriate [ ] Return ve:	Rush: [✓] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

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 _____

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

er Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Analyses: 6200B	MADEP VPH	Lead
Cl HICRD	DW	G	11/12	1521				8	X	X	X

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:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:

92506047
001

r 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

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

Lab Tracking #: 2539036

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92706101
Cooler 1 Temp Upon Receipt: 1.6 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 1.6 oC
Comments:

ed by/Company: (Signature) Apex	Date/Time: MT 1130 11/13/20	Received by/Company: (Signature)
ed by/Company: (Signature)	Date/Time: 11/13 1434	Received by/Company: (Signature) Pace
ed by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)

Date/Time: 11/13 1130
Date/Time: 11/13/20 1434
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 / NO

Page: _____ of: _____

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

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

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

Project **WO# : 92506047**

PM: AMB Due Date: 11/18/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 20, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92506050

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506050

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506050

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506050001	**13926B_HC_RD**	MADEP VPH	DWR	6	PAN
		EPA 6010D	BG2	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506050

Sample: 13926B_HC_RD **Lab ID: 92506050001** Collected: 11/12/20 16:18 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/19/20 02:53	11/19/20 02:53		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/19/20 02:53	11/19/20 02:53		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/19/20 02:53	11/19/20 02:53	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/19/20 02:53	11/19/20 02:53	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.7	%	70.0-130	1	11/19/20 02:53	11/19/20 02:53	615-59-8FID	
2,5-Dibromotoluene (PID)	91.7	%	70.0-130	1	11/19/20 02:53	11/19/20 02:53	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	11/14/20 00:58	11/15/20 21:56	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 17:04	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 17:04	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 17:04	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 17:04	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 17:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 17:04	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 17:04	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 17:04	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 17:04	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 17:04	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 17:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 17:04	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/16/20 17:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 17:04	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 17:04	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 17:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 17:04	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 17:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 17:04	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 17:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 17:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 17:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 17:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 17:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 17:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 17:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 17:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 17:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 17:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 17:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 17:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 17:04	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506050

Sample: 13926B_HC_RD **Lab ID: 92506050001** Collected: 11/12/20 16:18 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 17:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 17:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 17:04	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 17:04	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 17:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 17:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 17:04	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 17:04	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 17:04	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 17:04	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 17:04	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 17:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 17:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 17:04	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 17:04	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 17:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 17:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 17:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 17:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 17:04	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 17:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 17:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 17:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 17:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 17:04	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 17:04	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 17:04	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 17:04	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/16/20 17:04	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/16/20 17:04	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/16/20 17:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506050

QC Batch: 1578752
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506050001

METHOD BLANK: R3595333-3 Matrix: Water
Associated Lab Samples: 92506050001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/19/20 00:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/19/20 00:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/19/20 00:08	
Total VPH	ug/L	ND	100	11/19/20 00:08	
2,5-Dibromotoluene (FID)	%	84.7	70.0-130	11/19/20 00:08	
2,5-Dibromotoluene (PID)	%	82.5	70.0-130	11/19/20 00:08	

LABORATORY CONTROL SAMPLE & LCSD: R3595333-1 R3595333-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1020	86.7	85.0	70.0-130	1.94	25	
Aliphatic (C09-C12)	ug/L	1400	1200	1180	85.7	84.3	70.0-130	1.68	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	157	156	78.5	78.0	70.0-130	0.639	25	
Total VPH	ug/L	2800	2400	2360	85.7	84.3	70.0-130	1.68	25	
2,5-Dibromotoluene (FID)	%				91.3	93.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.8	93.3	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506050

QC Batch: 580349
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92506050001

METHOD BLANK: 3070197 Matrix: Water
Associated Lab Samples: 92506050001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/15/20 21:14	

LABORATORY CONTROL SAMPLE: 3070198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070199 3070200

Parameter	Units	92505868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	264	266	105	106	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506050

QC Batch: 580502
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92506050001

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506050001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
2,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
2-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
4-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
Benzene	ug/L	ND	0.50	11/16/20 12:36	
Bromobenzene	ug/L	ND	0.50	11/16/20 12:36	
Bromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromodichloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromoform	ug/L	ND	0.50	11/16/20 12:36	
Bromomethane	ug/L	ND	5.0	11/16/20 12:36	
Carbon tetrachloride	ug/L	ND	0.50	11/16/20 12:36	
Chlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
Chloroethane	ug/L	ND	1.0	11/16/20 12:36	
Chloroform	ug/L	ND	0.50	11/16/20 12:36	
Chloromethane	ug/L	ND	1.0	11/16/20 12:36	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Dibromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Dibromomethane	ug/L	ND	0.50	11/16/20 12:36	
Dichlorodifluoromethane	ug/L	ND	0.50	11/16/20 12:36	
Diisopropyl ether	ug/L	ND	0.50	11/16/20 12:36	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506050

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506050001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/16/20 12:36	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/16/20 12:36	
m&p-Xylene	ug/L	ND	1.0	11/16/20 12:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/16/20 12:36	
Methylene Chloride	ug/L	ND	2.0	11/16/20 12:36	
n-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
n-Propylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Naphthalene	ug/L	ND	2.0	11/16/20 12:36	
o-Xylene	ug/L	ND	0.50	11/16/20 12:36	
sec-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Styrene	ug/L	ND	0.50	11/16/20 12:36	
tert-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Tetrachloroethene	ug/L	ND	0.50	11/16/20 12:36	
Toluene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Trichloroethene	ug/L	ND	0.50	11/16/20 12:36	
Trichlorofluoromethane	ug/L	ND	1.0	11/16/20 12:36	
Vinyl chloride	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/16/20 12:36	
4-Bromofluorobenzene (S)	%	94	70-130	11/16/20 12:36	
Toluene-d8 (S)	%	100	70-130	11/16/20 12:36	

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.0	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	46.1	92	60-140	
1,1-Dichloroethene	ug/L	50	51.5	103	60-140	
1,1-Dichloropropene	ug/L	50	47.0	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.6	93	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	60-140	
1,2-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,2-Dichloroethane	ug/L	50	41.8	84	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506050

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.0	104	60-140	
1,3-Dichloropropane	ug/L	50	48.8	98	60-140	
1,4-Dichlorobenzene	ug/L	50	51.4	103	60-140	
2,2-Dichloropropane	ug/L	50	49.4	99	60-140	
2-Chlorotoluene	ug/L	50	50.7	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	46.6	93	60-140	
Bromobenzene	ug/L	50	49.3	99	60-140	
Bromochloromethane	ug/L	50	46.4	93	60-140	
Bromodichloromethane	ug/L	50	48.2	96	60-140	
Bromoform	ug/L	50	49.5	99	60-140	
Bromomethane	ug/L	50	56.2	112	60-140	
Carbon tetrachloride	ug/L	50	49.7	99	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	39.5	79	60-140	
Chloroform	ug/L	50	47.5	95	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	51.1	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.4	81	60-140	
Diisopropyl ether	ug/L	50	44.0	88	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.3	85	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	98.7	99	60-140	
Methyl-tert-butyl ether	ug/L	50	45.3	91	60-140	
Methylene Chloride	ug/L	50	43.1	86	60-140	
n-Butylbenzene	ug/L	50	49.9	100	60-140	
n-Propylbenzene	ug/L	50	50.2	100	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	43.6	87	60-140	
Tetrachloroethene	ug/L	50	52.0	104	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	60-140	
Trichloroethene	ug/L	50	50.7	101	60-140	
Trichlorofluoromethane	ug/L	50	42.8	86	60-140	
Vinyl chloride	ug/L	50	40.9	82	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506050

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4180	4260	105	107	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4070	98	102	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3640	3780	91	95	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	4000	4000	3920	3910	98	98	60-140	0	
1,1-Dichloroethane	ug/L	ND	4000	4000	3790	3840	95	96	60-140	1	
1,1-Dichloroethene	ug/L	ND	4000	4000	4370	4170	109	104	60-140	5	
1,1-Dichloropropene	ug/L	ND	4000	4000	3900	3950	98	99	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	3470	3840	87	96	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	4000	4000	3770	3830	94	96	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	3820	4140	96	103	60-140	8	
1,2,4-Trimethylbenzene	ug/L	2800	4000	4000	6810	6970	100	104	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	3890	4140	97	103	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	171	4000	4000	4310	4330	103	104	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4110	4270	103	107	60-140	4	
1,2-Dichloroethane	ug/L	200	4000	4000	3660	3670	87	87	60-140	0	
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3990	98	100	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	4000	4000	5000	5120	125	128	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4210	4370	105	109	60-140	4	
1,3-Dichloropropane	ug/L	ND	4000	4000	3990	4000	100	100	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4190	4340	105	108	60-140	3	
2,2-Dichloropropane	ug/L	ND	4000	4000	3630	3670	91	92	60-140	1	
2-Chlorotoluene	ug/L	ND	4000	4000	4380	4430	110	111	60-140	1	
4-Chlorotoluene	ug/L	ND	4000	4000	4120	4270	103	107	60-140	4	
Benzene	ug/L	7570	4000	4000	11300	11200	93	92	60-140	0	
Bromobenzene	ug/L	ND	4000	4000	4350	4350	109	109	60-140	0	
Bromochloromethane	ug/L	ND	4000	4000	3820	3740	95	93	60-140	2	
Bromodichloromethane	ug/L	ND	4000	4000	3820	3980	95	100	60-140	4	
Bromoform	ug/L	ND	4000	4000	3770	3940	94	99	60-140	4	
Bromomethane	ug/L	ND	4000	4000	3330	4220	83	106	60-140	24	
Carbon tetrachloride	ug/L	ND	4000	4000	4100	4200	103	105	60-140	2	
Chlorobenzene	ug/L	ND	4000	4000	4120	4200	103	105	60-140	2	
Chloroethane	ug/L	ND	4000	4000	3640	3630	91	91	60-140	0	
Chloroform	ug/L	ND	4000	4000	3950	3980	99	99	60-140	1	
Chloromethane	ug/L	ND	4000	4000	2870	3010	72	75	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3700	3770	93	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	3940	3970	99	99	60-140	1	
Dibromochloromethane	ug/L	ND	4000	4000	4110	4240	103	106	60-140	3	
Dibromomethane	ug/L	ND	4000	4000	4190	4070	105	102	60-140	3	
Dichlorodifluoromethane	ug/L	ND	4000	4000	2760	2770	69	69	60-140	0	
Diisopropyl ether	ug/L	4130	4000	4000	7600	7690	87	89	60-140	1	
Ethylbenzene	ug/L	1970	4000	4000	5890	5940	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	3390	3370	85	84	60-140	0	
Isopropylbenzene (Cumene)	ug/L	102	4000	4000	4360	4470	106	109	60-140	3	
m&p-Xylene	ug/L	10600	8000	8000	18600	18700	100	102	60-140	1	
Methyl-tert-butyl ether	ug/L	1030	4000	4000	4750	4670	93	91	60-140	2	
Methylene Chloride	ug/L	ND	4000	4000	3870	3970	97	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506050

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	150	4000	4000	4070	4230	98	102	60-140	4	
n-Propylbenzene	ug/L	ND	4000	4000	4490	4570	112	114	60-140	2	
Naphthalene	ug/L	2150	4000	4000	5030	5550	72	85	60-140	10	
o-Xylene	ug/L	5920	4000	4000	9840	9970	98	101	60-140	1	
sec-Butylbenzene	ug/L	ND	4000	4000	4190	4330	105	108	60-140	3	
Styrene	ug/L	155	4000	4000	4250	4370	102	105	60-140	3	
tert-Butylbenzene	ug/L	ND	4000	4000	3670	3830	92	96	60-140	4	
Tetrachloroethene	ug/L	ND	4000	4000	4300	4430	107	111	60-140	3	
Toluene	ug/L	22800	4000	4000	26000	25800	79	76	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	3890	3920	97	98	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	3800	3930	95	98	60-140	3	
Trichloroethene	ug/L	ND	4000	4000	4230	4210	106	105	60-140	1	
Trichlorofluoromethane	ug/L	ND	4000	4000	3870	3920	97	98	60-140	1	
Vinyl chloride	ug/L	ND	4000	4000	3280	3290	82	82	60-140	0	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506050

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92506050

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506050001	**13926B_HC_RD**	MADEPV	1578752	MADEP VPH	1578752
92506050001	**13926B_HC_RD**	EPA 3010A	580349	EPA 6010D	580362
92506050001	**13926B_HC_RD**	SM 6200B	580502		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

WO# : 92506050

92506050

LAB [...] Number or [...]

Cont

[...]mpany: [...]pex Companies

[...]ress:

Billing Information:

[...]ort To: [...]ndrew Street

Email To:

[...]y To:

Site Collection Info/Address: 13926 B H/C RD

[...]omer Project Name/Number: [...]020-L1-2448

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

[...]ne:
[...]il:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

[...]cted By (print): [...]atthew Fraoli

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

[...]cted By (signature):

Turnaround Date Required: ASAP

Immediately Packed on Ice: [✓] Yes [ ] No

[...]le Disposal:
[...]ispose as appropriate [ ] Return
[...]rchive: ______
[...]old: ______

Rush: [✓] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

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

Analysis: ______

** 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 ______

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

[...]omer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	6200B	MADEP VPH	Lead	Lab Sample # / Comments
[...]926 B H/C RD	DW	G	11/12	1618				8	X	X	X	92506050 001

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: ______
- Sample pH Acceptable (Y) N NA
- pH Strips: ______
- Sulfide Present Y N (NA)
- Lead Acetate Strips: ______

LAB USE ONLY:

[...]mer 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

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

Lab Tracking #: 2539037

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92TC01
Cooler 1 Temp Upon Receipt: 1.6 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 1.6 oC
Comments:

[...]uished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
/ Apex	11/13/20 1130		11/13 1130	Table #:
[...]uished by/Company: (Signature)	Date/Time: 11/13 1934	Received by/Company: (Signature) Pace	Date/Time: 11/13/20 1934	Acctnum: Template: Prelogin:
[...]uished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

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.

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

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

Project **WO# : 92506050**

PM: AMB Due Date: 11/18/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 20, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92506051

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506051

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506051

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506051001	**14226_HC_RD**	MADEP VPH	DWR	6	PAN
		EPA 6010D	BG2	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506051

Sample: 14226_HC_RD **Lab ID: 92506051001** Collected: 11/12/20 14:55 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/19/20 03:26	11/19/20 03:26		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/19/20 03:26	11/19/20 03:26		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/19/20 03:26	11/19/20 03:26	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/19/20 03:26	11/19/20 03:26	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.9	%	70.0-130	1	11/19/20 03:26	11/19/20 03:26	615-59-8FID	
2,5-Dibromotoluene (PID)	88.4	%	70.0-130	1	11/19/20 03:26	11/19/20 03:26	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	11/14/20 00:58	11/15/20 21:59	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 15:17	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 15:17	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 15:17	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 15:17	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 15:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 15:17	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 15:17	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 15:17	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 15:17	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 15:17	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 15:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 15:17	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/16/20 15:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 15:17	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 15:17	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 15:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 15:17	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 15:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 15:17	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 15:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 15:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 15:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 15:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 15:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 15:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 15:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 15:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 15:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 15:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 15:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 15:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 15:17	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506051

Sample: 14226_HC_RD **Lab ID: 92506051001** Collected: 11/12/20 14:55 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 15:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 15:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 15:17	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 15:17	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 15:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 15:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 15:17	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 15:17	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 15:17	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 15:17	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 15:17	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 15:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 15:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 15:17	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 15:17	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 15:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 15:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 15:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 15:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 15:17	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 15:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 15:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 15:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 15:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 15:17	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 15:17	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 15:17	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 15:17	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		11/16/20 15:17	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		11/16/20 15:17	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/16/20 15:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506051

QC Batch: 1578752
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506051001

METHOD BLANK: R3595333-3 Matrix: Water
Associated Lab Samples: 92506051001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/19/20 00:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/19/20 00:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/19/20 00:08	
Total VPH	ug/L	ND	100	11/19/20 00:08	
2,5-Dibromotoluene (FID)	%	84.7	70.0-130	11/19/20 00:08	
2,5-Dibromotoluene (PID)	%	82.5	70.0-130	11/19/20 00:08	

LABORATORY CONTROL SAMPLE & LCSD: R3595333-1 R3595333-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1020	86.7	85.0	70.0-130	1.94	25	
Aliphatic (C09-C12)	ug/L	1400	1200	1180	85.7	84.3	70.0-130	1.68	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	157	156	78.5	78.0	70.0-130	0.639	25	
Total VPH	ug/L	2800	2400	2360	85.7	84.3	70.0-130	1.68	25	
2,5-Dibromotoluene (FID)	%				91.3	93.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.8	93.3	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506051

QC Batch: 580349
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92506051001

METHOD BLANK: 3070197 Matrix: Water
Associated Lab Samples: 92506051001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/15/20 21:14	

LABORATORY CONTROL SAMPLE: 3070198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070199 3070200

Parameter	Units	92505868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	264	266	105	106	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506051

QC Batch: 580502
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92506051001

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506051001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
2,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
2-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
4-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
Benzene	ug/L	ND	0.50	11/16/20 12:36	
Bromobenzene	ug/L	ND	0.50	11/16/20 12:36	
Bromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromodichloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromoform	ug/L	ND	0.50	11/16/20 12:36	
Bromomethane	ug/L	ND	5.0	11/16/20 12:36	
Carbon tetrachloride	ug/L	ND	0.50	11/16/20 12:36	
Chlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
Chloroethane	ug/L	ND	1.0	11/16/20 12:36	
Chloroform	ug/L	ND	0.50	11/16/20 12:36	
Chloromethane	ug/L	ND	1.0	11/16/20 12:36	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Dibromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Dibromomethane	ug/L	ND	0.50	11/16/20 12:36	
Dichlorodifluoromethane	ug/L	ND	0.50	11/16/20 12:36	
Diisopropyl ether	ug/L	ND	0.50	11/16/20 12:36	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506051

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506051001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/16/20 12:36	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/16/20 12:36	
m&p-Xylene	ug/L	ND	1.0	11/16/20 12:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/16/20 12:36	
Methylene Chloride	ug/L	ND	2.0	11/16/20 12:36	
n-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
n-Propylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Naphthalene	ug/L	ND	2.0	11/16/20 12:36	
o-Xylene	ug/L	ND	0.50	11/16/20 12:36	
sec-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Styrene	ug/L	ND	0.50	11/16/20 12:36	
tert-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Tetrachloroethene	ug/L	ND	0.50	11/16/20 12:36	
Toluene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Trichloroethene	ug/L	ND	0.50	11/16/20 12:36	
Trichlorofluoromethane	ug/L	ND	1.0	11/16/20 12:36	
Vinyl chloride	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/16/20 12:36	
4-Bromofluorobenzene (S)	%	94	70-130	11/16/20 12:36	
Toluene-d8 (S)	%	100	70-130	11/16/20 12:36	

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.0	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	46.1	92	60-140	
1,1-Dichloroethene	ug/L	50	51.5	103	60-140	
1,1-Dichloropropene	ug/L	50	47.0	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.6	93	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	60-140	
1,2-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,2-Dichloroethane	ug/L	50	41.8	84	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506051

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.0	104	60-140	
1,3-Dichloropropane	ug/L	50	48.8	98	60-140	
1,4-Dichlorobenzene	ug/L	50	51.4	103	60-140	
2,2-Dichloropropane	ug/L	50	49.4	99	60-140	
2-Chlorotoluene	ug/L	50	50.7	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	46.6	93	60-140	
Bromobenzene	ug/L	50	49.3	99	60-140	
Bromochloromethane	ug/L	50	46.4	93	60-140	
Bromodichloromethane	ug/L	50	48.2	96	60-140	
Bromoform	ug/L	50	49.5	99	60-140	
Bromomethane	ug/L	50	56.2	112	60-140	
Carbon tetrachloride	ug/L	50	49.7	99	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	39.5	79	60-140	
Chloroform	ug/L	50	47.5	95	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	51.1	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.4	81	60-140	
Diisopropyl ether	ug/L	50	44.0	88	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.3	85	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	98.7	99	60-140	
Methyl-tert-butyl ether	ug/L	50	45.3	91	60-140	
Methylene Chloride	ug/L	50	43.1	86	60-140	
n-Butylbenzene	ug/L	50	49.9	100	60-140	
n-Propylbenzene	ug/L	50	50.2	100	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	43.6	87	60-140	
Tetrachloroethene	ug/L	50	52.0	104	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	60-140	
Trichloroethene	ug/L	50	50.7	101	60-140	
Trichlorofluoromethane	ug/L	50	42.8	86	60-140	
Vinyl chloride	ug/L	50	40.9	82	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506051

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4180	4260	105	107	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4070	98	102	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3640	3780	91	95	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	4000	4000	3920	3910	98	98	60-140	0	
1,1-Dichloroethane	ug/L	ND	4000	4000	3790	3840	95	96	60-140	1	
1,1-Dichloroethene	ug/L	ND	4000	4000	4370	4170	109	104	60-140	5	
1,1-Dichloropropene	ug/L	ND	4000	4000	3900	3950	98	99	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	3470	3840	87	96	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	4000	4000	3770	3830	94	96	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	3820	4140	96	103	60-140	8	
1,2,4-Trimethylbenzene	ug/L	2800	4000	4000	6810	6970	100	104	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	3890	4140	97	103	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	171	4000	4000	4310	4330	103	104	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4110	4270	103	107	60-140	4	
1,2-Dichloroethane	ug/L	200	4000	4000	3660	3670	87	87	60-140	0	
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3990	98	100	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	4000	4000	5000	5120	125	128	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4210	4370	105	109	60-140	4	
1,3-Dichloropropane	ug/L	ND	4000	4000	3990	4000	100	100	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4190	4340	105	108	60-140	3	
2,2-Dichloropropane	ug/L	ND	4000	4000	3630	3670	91	92	60-140	1	
2-Chlorotoluene	ug/L	ND	4000	4000	4380	4430	110	111	60-140	1	
4-Chlorotoluene	ug/L	ND	4000	4000	4120	4270	103	107	60-140	4	
Benzene	ug/L	7570	4000	4000	11300	11200	93	92	60-140	0	
Bromobenzene	ug/L	ND	4000	4000	4350	4350	109	109	60-140	0	
Bromochloromethane	ug/L	ND	4000	4000	3820	3740	95	93	60-140	2	
Bromodichloromethane	ug/L	ND	4000	4000	3820	3980	95	100	60-140	4	
Bromoform	ug/L	ND	4000	4000	3770	3940	94	99	60-140	4	
Bromomethane	ug/L	ND	4000	4000	3330	4220	83	106	60-140	24	
Carbon tetrachloride	ug/L	ND	4000	4000	4100	4200	103	105	60-140	2	
Chlorobenzene	ug/L	ND	4000	4000	4120	4200	103	105	60-140	2	
Chloroethane	ug/L	ND	4000	4000	3640	3630	91	91	60-140	0	
Chloroform	ug/L	ND	4000	4000	3950	3980	99	99	60-140	1	
Chloromethane	ug/L	ND	4000	4000	2870	3010	72	75	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3700	3770	93	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	3940	3970	99	99	60-140	1	
Dibromochloromethane	ug/L	ND	4000	4000	4110	4240	103	106	60-140	3	
Dibromomethane	ug/L	ND	4000	4000	4190	4070	105	102	60-140	3	
Dichlorodifluoromethane	ug/L	ND	4000	4000	2760	2770	69	69	60-140	0	
Diisopropyl ether	ug/L	4130	4000	4000	7600	7690	87	89	60-140	1	
Ethylbenzene	ug/L	1970	4000	4000	5890	5940	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	3390	3370	85	84	60-140	0	
Isopropylbenzene (Cumene)	ug/L	102	4000	4000	4360	4470	106	109	60-140	3	
m&p-Xylene	ug/L	10600	8000	8000	18600	18700	100	102	60-140	1	
Methyl-tert-butyl ether	ug/L	1030	4000	4000	4750	4670	93	91	60-140	2	
Methylene Chloride	ug/L	ND	4000	4000	3870	3970	97	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506051

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	150	4000	4000	4070	4230	98	102	60-140	4	
n-Propylbenzene	ug/L	ND	4000	4000	4490	4570	112	114	60-140	2	
Naphthalene	ug/L	2150	4000	4000	5030	5550	72	85	60-140	10	
o-Xylene	ug/L	5920	4000	4000	9840	9970	98	101	60-140	1	
sec-Butylbenzene	ug/L	ND	4000	4000	4190	4330	105	108	60-140	3	
Styrene	ug/L	155	4000	4000	4250	4370	102	105	60-140	3	
tert-Butylbenzene	ug/L	ND	4000	4000	3670	3830	92	96	60-140	4	
Tetrachloroethene	ug/L	ND	4000	4000	4300	4430	107	111	60-140	3	
Toluene	ug/L	22800	4000	4000	26000	25800	79	76	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	3890	3920	97	98	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	3800	3930	95	98	60-140	3	
Trichloroethene	ug/L	ND	4000	4000	4230	4210	106	105	60-140	1	
Trichlorofluoromethane	ug/L	ND	4000	4000	3870	3920	97	98	60-140	1	
Vinyl chloride	ug/L	ND	4000	4000	3280	3290	82	82	60-140	0	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506051

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92506051

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506051001	**14226_HC_RD**	MADEPV	1578752	MADEP VPH	1578752
92506051001	**14226_HC_RD**	EPA 3010A	580349	EPA 6010D	580362
92506051001	**14226_HC_RD**	SM 6200B	580502		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE — WO# : 92506051

92506051

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To:
Copy To:	Site/Collection Info/Address: 14226 HICKORY RD
Customer Project Name/Number: 20-LL-2448	State: NC / County/City: Huntersville / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Heather Frudi	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: ASAP / 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:

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 _____

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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 624 oxB	MADEP VPH	Lead
14226 HICKORY RD	DW	G	11/12	1455					X	X	X

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:			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:

92506051
001

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

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

Lab Tracking #: 2539035

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92706?
Cooler 1 Temp Upon Receipt: 1.6 oC
Cooler 1 Therm Corr. Factor: .8 oC
Cooler 1 Corrected Temp: 1.6 oC
Comments:

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) Apex	11/13/20 1130		11/13 1130
Relinquished by/Company: (Signature)	11/13 1434	Kafer Pace	11/13/20 1434
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 / (NO)

Page: _____ of: _____

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

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

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

Project **WO# : 92506051**

PM: AMB Due Date: 11/18/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 20, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92506055

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92506055

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92506055

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92506055001	**14015_AC_RD**	MADEP VPH	DWR	6	PAN
		EPA 6010D	BG2	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506055

Sample: 14015_AC_RD **Lab ID: 92506055001** Collected: 11/12/20 12:55 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/19/20 04:00	11/19/20 04:00		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/19/20 04:00	11/19/20 04:00		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/19/20 04:00	11/19/20 04:00	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/19/20 04:00	11/19/20 04:00	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.9	%	70.0-130	1	11/19/20 04:00	11/19/20 04:00	615-59-8FID	
2,5-Dibromotoluene (PID)	92.8	%	70.0-130	1	11/19/20 04:00	11/19/20 04:00	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	11/14/20 00:58	11/15/20 22:02	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/16/20 15:35	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/16/20 15:35	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/16/20 15:35	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/16/20 15:35	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/16/20 15:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/16/20 15:35	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/16/20 15:35	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/16/20 15:35	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/16/20 15:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/16/20 15:35	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/16/20 15:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/16/20 15:35	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/16/20 15:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/16/20 15:35	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 15:35	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/16/20 15:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/16/20 15:35	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/16/20 15:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/16/20 15:35	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/16/20 15:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 15:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 15:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/16/20 15:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/16/20 15:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/16/20 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/16/20 15:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/16/20 15:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/16/20 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 15:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/16/20 15:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/16/20 15:35	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92506055

Sample: 14015_AC_RD **Lab ID: 92506055001** Collected: 11/12/20 12:55 Received: 11/13/20 14:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/16/20 15:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 15:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/16/20 15:35	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/16/20 15:35	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/16/20 15:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/16/20 15:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/16/20 15:35	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/16/20 15:35	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/16/20 15:35	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/16/20 15:35	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/16/20 15:35	103-65-1	
Styrene	ND	ug/L	0.50	1		11/16/20 15:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 15:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/16/20 15:35	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/16/20 15:35	127-18-4	
Toluene	ND	ug/L	0.50	1		11/16/20 15:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 15:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/16/20 15:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/16/20 15:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/16/20 15:35	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/16/20 15:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/16/20 15:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/16/20 15:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 15:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/16/20 15:35	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/16/20 15:35	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/16/20 15:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/16/20 15:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/16/20 15:35	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		11/16/20 15:35	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/16/20 15:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506055

QC Batch: 1578752
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92506055001

METHOD BLANK: R3595333-3 Matrix: Water
Associated Lab Samples: 92506055001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/19/20 00:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/19/20 00:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/19/20 00:08	
Total VPH	ug/L	ND	100	11/19/20 00:08	
2,5-Dibromotoluene (FID)	%	84.7	70.0-130	11/19/20 00:08	
2,5-Dibromotoluene (PID)	%	82.5	70.0-130	11/19/20 00:08	

LABORATORY CONTROL SAMPLE & LCSD: R3595333-1 R3595333-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1020	86.7	85.0	70.0-130	1.94	25	
Aliphatic (C09-C12)	ug/L	1400	1200	1180	85.7	84.3	70.0-130	1.68	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	157	156	78.5	78.0	70.0-130	0.639	25	
Total VPH	ug/L	2800	2400	2360	85.7	84.3	70.0-130	1.68	25	
2,5-Dibromotoluene (FID)	%				91.3	93.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.8	93.3	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506055

QC Batch: 580349
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92506055001

METHOD BLANK: 3070197 Matrix: Water
Associated Lab Samples: 92506055001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/15/20 21:14	

LABORATORY CONTROL SAMPLE: 3070198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070199 3070200

Parameter	Units	92505868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	264	266	105	106	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506055

QC Batch: 580502
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92506055001

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506055001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
1,1-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/16/20 12:36	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloroethane	ug/L	ND	0.50	11/16/20 12:36	
1,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
1,3-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
2,2-Dichloropropane	ug/L	ND	0.50	11/16/20 12:36	
2-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
4-Chlorotoluene	ug/L	ND	0.50	11/16/20 12:36	
Benzene	ug/L	ND	0.50	11/16/20 12:36	
Bromobenzene	ug/L	ND	0.50	11/16/20 12:36	
Bromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromodichloromethane	ug/L	ND	0.50	11/16/20 12:36	
Bromoform	ug/L	ND	0.50	11/16/20 12:36	
Bromomethane	ug/L	ND	5.0	11/16/20 12:36	
Carbon tetrachloride	ug/L	ND	0.50	11/16/20 12:36	
Chlorobenzene	ug/L	ND	0.50	11/16/20 12:36	
Chloroethane	ug/L	ND	1.0	11/16/20 12:36	
Chloroform	ug/L	ND	0.50	11/16/20 12:36	
Chloromethane	ug/L	ND	1.0	11/16/20 12:36	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Dibromochloromethane	ug/L	ND	0.50	11/16/20 12:36	
Dibromomethane	ug/L	ND	0.50	11/16/20 12:36	
Dichlorodifluoromethane	ug/L	ND	0.50	11/16/20 12:36	
Diisopropyl ether	ug/L	ND	0.50	11/16/20 12:36	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506055

METHOD BLANK: 3070676 Matrix: Water
Associated Lab Samples: 92506055001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/16/20 12:36	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/16/20 12:36	
m&p-Xylene	ug/L	ND	1.0	11/16/20 12:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/16/20 12:36	
Methylene Chloride	ug/L	ND	2.0	11/16/20 12:36	
n-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
n-Propylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Naphthalene	ug/L	ND	2.0	11/16/20 12:36	
o-Xylene	ug/L	ND	0.50	11/16/20 12:36	
sec-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Styrene	ug/L	ND	0.50	11/16/20 12:36	
tert-Butylbenzene	ug/L	ND	0.50	11/16/20 12:36	
Tetrachloroethene	ug/L	ND	0.50	11/16/20 12:36	
Toluene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/16/20 12:36	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/16/20 12:36	
Trichloroethene	ug/L	ND	0.50	11/16/20 12:36	
Trichlorofluoromethane	ug/L	ND	1.0	11/16/20 12:36	
Vinyl chloride	ug/L	ND	1.0	11/16/20 12:36	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/16/20 12:36	
4-Bromofluorobenzene (S)	%	94	70-130	11/16/20 12:36	
Toluene-d8 (S)	%	100	70-130	11/16/20 12:36	

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.0	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	46.1	92	60-140	
1,1-Dichloroethene	ug/L	50	51.5	103	60-140	
1,1-Dichloropropene	ug/L	50	47.0	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.6	93	60-140	
1,2,3-Trichloropropane	ug/L	50	45.2	90	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	60-140	
1,2-Dichlorobenzene	ug/L	50	50.7	101	60-140	
1,2-Dichloroethane	ug/L	50	41.8	84	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506055

LABORATORY CONTROL SAMPLE: 3070677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.0	104	60-140	
1,3-Dichloropropane	ug/L	50	48.8	98	60-140	
1,4-Dichlorobenzene	ug/L	50	51.4	103	60-140	
2,2-Dichloropropane	ug/L	50	49.4	99	60-140	
2-Chlorotoluene	ug/L	50	50.7	101	60-140	
4-Chlorotoluene	ug/L	50	49.0	98	60-140	
Benzene	ug/L	50	46.6	93	60-140	
Bromobenzene	ug/L	50	49.3	99	60-140	
Bromochloromethane	ug/L	50	46.4	93	60-140	
Bromodichloromethane	ug/L	50	48.2	96	60-140	
Bromoform	ug/L	50	49.5	99	60-140	
Bromomethane	ug/L	50	56.2	112	60-140	
Carbon tetrachloride	ug/L	50	49.7	99	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	39.5	79	60-140	
Chloroform	ug/L	50	47.5	95	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	51.1	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.4	81	60-140	
Diisopropyl ether	ug/L	50	44.0	88	60-140	
Ethylbenzene	ug/L	50	48.2	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.3	85	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	98.7	99	60-140	
Methyl-tert-butyl ether	ug/L	50	45.3	91	60-140	
Methylene Chloride	ug/L	50	43.1	86	60-140	
n-Butylbenzene	ug/L	50	49.9	100	60-140	
n-Propylbenzene	ug/L	50	50.2	100	60-140	
Naphthalene	ug/L	50	49.0	98	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	43.6	87	60-140	
Tetrachloroethene	ug/L	50	52.0	104	60-140	
Toluene	ug/L	50	47.4	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	60-140	
Trichloroethene	ug/L	50	50.7	101	60-140	
Trichlorofluoromethane	ug/L	50	42.8	86	60-140	
Vinyl chloride	ug/L	50	40.9	82	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506055

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4000	4180	4260	105	107	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	4000	4000	3940	4070	98	102	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4000	3640	3780	91	95	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	4000	4000	3920	3910	98	98	60-140	0	
1,1-Dichloroethane	ug/L	ND	4000	4000	3790	3840	95	96	60-140	1	
1,1-Dichloroethene	ug/L	ND	4000	4000	4370	4170	109	104	60-140	5	
1,1-Dichloropropene	ug/L	ND	4000	4000	3900	3950	98	99	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	4000	4000	3470	3840	87	96	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	4000	4000	3770	3830	94	96	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	4000	4000	3820	4140	96	103	60-140	8	
1,2,4-Trimethylbenzene	ug/L	2800	4000	4000	6810	6970	100	104	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	4000	3890	4140	97	103	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	171	4000	4000	4310	4330	103	104	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	4000	4000	4110	4270	103	107	60-140	4	
1,2-Dichloroethane	ug/L	200	4000	4000	3660	3670	87	87	60-140	0	
1,2-Dichloropropane	ug/L	ND	4000	4000	3930	3990	98	100	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	4000	4000	5000	5120	125	128	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	4000	4000	4210	4370	105	109	60-140	4	
1,3-Dichloropropane	ug/L	ND	4000	4000	3990	4000	100	100	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	4000	4000	4190	4340	105	108	60-140	3	
2,2-Dichloropropane	ug/L	ND	4000	4000	3630	3670	91	92	60-140	1	
2-Chlorotoluene	ug/L	ND	4000	4000	4380	4430	110	111	60-140	1	
4-Chlorotoluene	ug/L	ND	4000	4000	4120	4270	103	107	60-140	4	
Benzene	ug/L	7570	4000	4000	11300	11200	93	92	60-140	0	
Bromobenzene	ug/L	ND	4000	4000	4350	4350	109	109	60-140	0	
Bromochloromethane	ug/L	ND	4000	4000	3820	3740	95	93	60-140	2	
Bromodichloromethane	ug/L	ND	4000	4000	3820	3980	95	100	60-140	4	
Bromoform	ug/L	ND	4000	4000	3770	3940	94	99	60-140	4	
Bromomethane	ug/L	ND	4000	4000	3330	4220	83	106	60-140	24	
Carbon tetrachloride	ug/L	ND	4000	4000	4100	4200	103	105	60-140	2	
Chlorobenzene	ug/L	ND	4000	4000	4120	4200	103	105	60-140	2	
Chloroethane	ug/L	ND	4000	4000	3640	3630	91	91	60-140	0	
Chloroform	ug/L	ND	4000	4000	3950	3980	99	99	60-140	1	
Chloromethane	ug/L	ND	4000	4000	2870	3010	72	75	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	4000	4000	3700	3770	93	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	4000	4000	3940	3970	99	99	60-140	1	
Dibromochloromethane	ug/L	ND	4000	4000	4110	4240	103	106	60-140	3	
Dibromomethane	ug/L	ND	4000	4000	4190	4070	105	102	60-140	3	
Dichlorodifluoromethane	ug/L	ND	4000	4000	2760	2770	69	69	60-140	0	
Diisopropyl ether	ug/L	4130	4000	4000	7600	7690	87	89	60-140	1	
Ethylbenzene	ug/L	1970	4000	4000	5890	5940	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	4000	4000	3390	3370	85	84	60-140	0	
Isopropylbenzene (Cumene)	ug/L	102	4000	4000	4360	4470	106	109	60-140	3	
m&p-Xylene	ug/L	10600	8000	8000	18600	18700	100	102	60-140	1	
Methyl-tert-butyl ether	ug/L	1030	4000	4000	4750	4670	93	91	60-140	2	
Methylene Chloride	ug/L	ND	4000	4000	3870	3970	97	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92506055

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3070678 3070679

Parameter	Units	92505051006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	150	4000	4000	4070	4230	98	102	60-140	4	
n-Propylbenzene	ug/L	ND	4000	4000	4490	4570	112	114	60-140	2	
Naphthalene	ug/L	2150	4000	4000	5030	5550	72	85	60-140	10	
o-Xylene	ug/L	5920	4000	4000	9840	9970	98	101	60-140	1	
sec-Butylbenzene	ug/L	ND	4000	4000	4190	4330	105	108	60-140	3	
Styrene	ug/L	155	4000	4000	4250	4370	102	105	60-140	3	
tert-Butylbenzene	ug/L	ND	4000	4000	3670	3830	92	96	60-140	4	
Tetrachloroethene	ug/L	ND	4000	4000	4300	4430	107	111	60-140	3	
Toluene	ug/L	22800	4000	4000	26000	25800	79	76	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	4000	4000	3890	3920	97	98	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	4000	4000	3800	3930	95	98	60-140	3	
Trichloroethene	ug/L	ND	4000	4000	4230	4210	106	105	60-140	1	
Trichlorofluoromethane	ug/L	ND	4000	4000	3870	3920	97	98	60-140	1	
Vinyl chloride	ug/L	ND	4000	4000	3280	3290	82	82	60-140	0	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92506055

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92506055

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92506055001	**14015_AC_RD**	MADEPV	1578752	MADEP VPH	1578752
92506055001	**14015_AC_RD**	EPA 3010A	580349	EPA 6010D	580362
92506055001	**14015_AC_RD**	SM 6200B	580502		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

WO#: 92506055

92506055

...rder Number or

...NLY

ny: ...ex companies

s:

To: ...drew Steed

):

Billing Information:

Email To:

Site Collection Info/Address: 13945 ACRD

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

...er Project Name/Number: 20-LI-2448

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

...d By (print): ...than Fraidi

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

...d By (signature):

Turnaround Date Required: ASAP

Immediately Packed on Ice: [✓] Yes [ ] No

Disposal: ...se as appropriate [ ] Return ...ve: ______

Rush: [✓] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

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

Analysis: ______

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

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 ______

...er Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	6200B	MADEP VPH	Lead
...15 ACRD	DW	G	11/12	1255				8	X	X	X

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: ______
- Sulfide Present Y N (NA)
- Lead Acetate Strips: ______

LAB USE ONLY:

Lab Sample # / Comments: 92506055 001

...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

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

Lab Tracking #: 2539033

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 92T061

Cooler 1 Temp Upon Receipt: 1.6 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 1.6 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
/ Apex	11/13/20 1130		11/13/20/1130	Table #:
	11/13/20 1434	Pace	11-13-20 1434	Acctnum: Template: Prelogin:
				PM: PB:

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.

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

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

Project # WO#: 92506055

PM: AMB Due Date: 11/18/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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.: 92507391

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92507391

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92507391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92507391001	**FD-111820**	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92507391002	**Field Blank**	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92507391003	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507391

Sample: FD-111820 **Lab ID: 92507391001** Collected: 11/19/20 14:03 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/30/20 13:49	11/30/20 13:49		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/30/20 13:49	11/30/20 13:49		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/30/20 13:49	11/30/20 13:49	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/30/20 13:49	11/30/20 13:49	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.7	%	70.0-130	1	11/30/20 13:49	11/30/20 13:49	615-59-8FID	
2,5-Dibromotoluene (PID)	88.6	%	70.0-130	1	11/30/20 13:49	11/30/20 13:49	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**5.4**	ug/L	5.0	1	11/21/20 03:19	11/23/20 22:03	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/20/20 17:17	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/20/20 17:17	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/20/20 17:17	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/20/20 17:17	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/20/20 17:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/20/20 17:17	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/20/20 17:17	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/20/20 17:17	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/20/20 17:17	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/20/20 17:17	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/20/20 17:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/20 17:17	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/20/20 17:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/20 17:17	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 17:17	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 17:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/20/20 17:17	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/20/20 17:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/20/20 17:17	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/20/20 17:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 17:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 17:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 17:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/20/20 17:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/20/20 17:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/20/20 17:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/20/20 17:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 17:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 17:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 17:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/20/20 17:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 17:17	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507391

Sample: FD-111820 **Lab ID: 92507391001** Collected: 11/19/20 14:03 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/20/20 17:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 17:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 17:17	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/20/20 17:17	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/20/20 17:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/20/20 17:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/20/20 17:17	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/20/20 17:17	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/20/20 17:17	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/20/20 17:17	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/20/20 17:17	103-65-1	
Styrene	ND	ug/L	0.50	1		11/20/20 17:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 17:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 17:17	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/20/20 17:17	127-18-4	
Toluene	ND	ug/L	0.50	1		11/20/20 17:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 17:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 17:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/20/20 17:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/20/20 17:17	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/20/20 17:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/20 17:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/20/20 17:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 17:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 17:17	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/20/20 17:17	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/20/20 17:17	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/20/20 17:17	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		11/20/20 17:17	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/20/20 17:17	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/20/20 17:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507391

Sample: Field Blank **Lab ID: 92507391002** Collected: 11/19/20 17:34 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/30/20 14:22	11/30/20 14:22		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/30/20 14:22	11/30/20 14:22		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/30/20 14:22	11/30/20 14:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/30/20 14:22	11/30/20 14:22	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.0	%	70.0-130	1	11/30/20 14:22	11/30/20 14:22	615-59-8FID	
2,5-Dibromotoluene (PID)	90.2	%	70.0-130	1	11/30/20 14:22	11/30/20 14:22	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	11/21/20 03:19	11/23/20 22:20	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/20/20 15:48	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/20/20 15:48	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/20/20 15:48	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/20/20 15:48	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/20/20 15:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/20/20 15:48	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/20/20 15:48	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/20/20 15:48	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/20/20 15:48	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/20/20 15:48	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/20/20 15:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/20 15:48	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/20/20 15:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/20 15:48	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 15:48	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 15:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/20/20 15:48	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/20/20 15:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/20/20 15:48	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/20/20 15:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 15:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 15:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 15:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/20/20 15:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/20/20 15:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/20/20 15:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/20/20 15:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 15:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 15:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 15:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/20/20 15:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 15:48	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507391

Sample: Field Blank **Lab ID: 92507391002** Collected: 11/19/20 17:34 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/20/20 15:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 15:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 15:48	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/20/20 15:48	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/20/20 15:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/20/20 15:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/20/20 15:48	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/20/20 15:48	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/20/20 15:48	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/20/20 15:48	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/20/20 15:48	103-65-1	
Styrene	ND	ug/L	0.50	1		11/20/20 15:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 15:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 15:48	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/20/20 15:48	127-18-4	
Toluene	ND	ug/L	0.50	1		11/20/20 15:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 15:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 15:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/20/20 15:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/20/20 15:48	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/20/20 15:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/20 15:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/20/20 15:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 15:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 15:48	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/20/20 15:48	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/20/20 15:48	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/20/20 15:48	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		11/20/20 15:48	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		11/20/20 15:48	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		11/20/20 15:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507391

Sample: Trip Blank **Lab ID: 92507391003** Collected: 11/19/20 00:00 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/20/20 16:06	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/20/20 16:06	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/20/20 16:06	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/20/20 16:06	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/20/20 16:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/20/20 16:06	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/20/20 16:06	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/20/20 16:06	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/20/20 16:06	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/20/20 16:06	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/20/20 16:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/20 16:06	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/20/20 16:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/20 16:06	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 16:06	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 16:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/20/20 16:06	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/20/20 16:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/20/20 16:06	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/20/20 16:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 16:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 16:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 16:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/20/20 16:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/20/20 16:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/20/20 16:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/20/20 16:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 16:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 16:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 16:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/20/20 16:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 16:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		11/20/20 16:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 16:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 16:06	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/20/20 16:06	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/20/20 16:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/20/20 16:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/20/20 16:06	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/20/20 16:06	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/20/20 16:06	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/20/20 16:06	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/20/20 16:06	103-65-1	
Styrene	ND	ug/L	0.50	1		11/20/20 16:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 16:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 16:06	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507391

Sample: Trip Blank **Lab ID: 92507391003** Collected: 11/19/20 00:00 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		11/20/20 16:06	127-18-4	
Toluene	ND	ug/L	0.50	1		11/20/20 16:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 16:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 16:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/20/20 16:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/20/20 16:06	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/20/20 16:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/20 16:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/20/20 16:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 16:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 16:06	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/20/20 16:06	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/20/20 16:06	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/20/20 16:06	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		11/20/20 16:06	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/20/20 16:06	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/20/20 16:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507391

QC Batch: 1584076
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92507391001, 92507391002

METHOD BLANK: R3599157-3 Matrix: Water

Associated Lab Samples: 92507391001, 92507391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/30/20 11:04	
Aliphatic (C09-C12)	ug/L	ND	100	11/30/20 11:04	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/30/20 11:04	
Total VPH	ug/L	ND	100	11/30/20 11:04	
2,5-Dibromotoluene (FID)	%	84.3	70.0-130	11/30/20 11:04	
2,5-Dibromotoluene (PID)	%	78.8	70.0-130	11/30/20 11:04	

LABORATORY CONTROL SAMPLE & LCSD: R3599157-1 R3599157-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1000	988	83.3	82.3	70.0-130	1.21	25	
Aliphatic (C09-C12)	ug/L	1400	1420	1400	101	100	70.0-130	1.42	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	202	198	101	99.0	70.0-130	2.00	25	
Total VPH	ug/L	2800	2620	2590	93.6	92.5	70.0-130	1.15	25	
2,5-Dibromotoluene (FID)	%				95.0	96.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.1	92.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507391

QC Batch: 582084
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92507391001, 92507391002

METHOD BLANK: 3078716 Matrix: Water
Associated Lab Samples: 92507391001, 92507391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/23/20 21:21	

LABORATORY CONTROL SAMPLE: 3078717

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078718 3078719

Parameter	Units	92506490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	253	257	101	102	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507391

QC Batch: 581979
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92507391001, 92507391002, 92507391003

METHOD BLANK: 3078103 Matrix: Water
Associated Lab Samples: 92507391001, 92507391002, 92507391003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/20/20 14:37	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/20/20 14:37	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/20/20 14:37	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
1,3-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
2,2-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
2-Chlorotoluene	ug/L	ND	0.50	11/20/20 14:37	
4-Chlorotoluene	ug/L	ND	0.50	11/20/20 14:37	
Benzene	ug/L	ND	0.50	11/20/20 14:37	
Bromobenzene	ug/L	ND	0.50	11/20/20 14:37	
Bromochloromethane	ug/L	ND	0.50	11/20/20 14:37	
Bromodichloromethane	ug/L	ND	0.50	11/20/20 14:37	
Bromoform	ug/L	ND	0.50	11/20/20 14:37	
Bromomethane	ug/L	ND	5.0	11/20/20 14:37	
Carbon tetrachloride	ug/L	ND	0.50	11/20/20 14:37	
Chlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
Chloroethane	ug/L	ND	1.0	11/20/20 14:37	
Chloroform	ug/L	ND	0.50	11/20/20 14:37	
Chloromethane	ug/L	ND	1.0	11/20/20 14:37	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
Dibromochloromethane	ug/L	ND	0.50	11/20/20 14:37	
Dibromomethane	ug/L	ND	0.50	11/20/20 14:37	
Dichlorodifluoromethane	ug/L	ND	0.50	11/20/20 14:37	
Diisopropyl ether	ug/L	ND	0.50	11/20/20 14:37	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507391

METHOD BLANK: 3078103 Matrix: Water
Associated Lab Samples: 92507391001, 92507391002, 92507391003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/20/20 14:37	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/20/20 14:37	
m&p-Xylene	ug/L	ND	1.0	11/20/20 14:37	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/20/20 14:37	
Methylene Chloride	ug/L	ND	2.0	11/20/20 14:37	
n-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
n-Propylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Naphthalene	ug/L	ND	2.0	11/20/20 14:37	
o-Xylene	ug/L	ND	0.50	11/20/20 14:37	
sec-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Styrene	ug/L	ND	0.50	11/20/20 14:37	
tert-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Tetrachloroethene	ug/L	ND	0.50	11/20/20 14:37	
Toluene	ug/L	ND	0.50	11/20/20 14:37	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
Trichloroethene	ug/L	ND	0.50	11/20/20 14:37	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/20 14:37	
Vinyl chloride	ug/L	ND	1.0	11/20/20 14:37	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/20/20 14:37	
4-Bromofluorobenzene (S)	%	97	70-130	11/20/20 14:37	
Toluene-d8 (S)	%	102	70-130	11/20/20 14:37	

LABORATORY CONTROL SAMPLE: 3078104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.8	90	60-140	
1,1,1-Trichloroethane	ug/L	50	43.6	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	43.2	86	60-140	
1,1,2-Trichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethane	ug/L	50	42.7	85	60-140	
1,1-Dichloroethene	ug/L	50	43.1	86	60-140	
1,1-Dichloropropene	ug/L	50	43.3	87	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.0	94	60-140	
1,2,3-Trichloropropane	ug/L	50	41.6	83	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.3	93	60-140	
1,2,4-Trimethylbenzene	ug/L	50	42.1	84	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	45.0	90	60-140	
1,2-Dichlorobenzene	ug/L	50	42.9	86	60-140	
1,2-Dichloroethane	ug/L	50	39.1	78	60-140	
1,2-Dichloropropane	ug/L	50	44.8	90	60-140	
1,3,5-Trimethylbenzene	ug/L	50	42.7	85	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507391

LABORATORY CONTROL SAMPLE: 3078104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	44.1	88	60-140	
1,3-Dichloropropane	ug/L	50	45.0	90	60-140	
1,4-Dichlorobenzene	ug/L	50	44.2	88	60-140	
2,2-Dichloropropane	ug/L	50	42.8	86	60-140	
2-Chlorotoluene	ug/L	50	43.7	87	60-140	
4-Chlorotoluene	ug/L	50	42.6	85	60-140	
Benzene	ug/L	50	43.1	86	60-140	
Bromobenzene	ug/L	50	43.8	88	60-140	
Bromochloromethane	ug/L	50	43.0	86	60-140	
Bromodichloromethane	ug/L	50	43.1	86	60-140	
Bromoform	ug/L	50	43.2	86	60-140	
Bromomethane	ug/L	50	41.7	83	60-140	
Carbon tetrachloride	ug/L	50	42.3	85	60-140	
Chlorobenzene	ug/L	50	42.8	86	60-140	
Chloroethane	ug/L	50	39.3	79	60-140	
Chloroform	ug/L	50	43.6	87	60-140	
Chloromethane	ug/L	50	38.9	78	60-140	
cis-1,2-Dichloroethene	ug/L	50	40.8	82	60-140	
cis-1,3-Dichloropropene	ug/L	50	45.4	91	60-140	
Dibromochloromethane	ug/L	50	47.6	95	60-140	
Dibromomethane	ug/L	50	43.0	86	60-140	
Dichlorodifluoromethane	ug/L	50	37.3	75	60-140	
Diisopropyl ether	ug/L	50	41.2	82	60-140	
Ethylbenzene	ug/L	50	42.4	85	60-140	
Hexachloro-1,3-butadiene	ug/L	50	44.6	89	60-140	
Isopropylbenzene (Cumene)	ug/L	50	43.5	87	60-140	
m&p-Xylene	ug/L	100	85.4	85	60-140	
Methyl-tert-butyl ether	ug/L	50	42.8	86	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	43.1	86	60-140	
n-Propylbenzene	ug/L	50	42.5	85	60-140	
Naphthalene	ug/L	50	48.3	97	60-140	
o-Xylene	ug/L	50	43.5	87	60-140	
sec-Butylbenzene	ug/L	50	42.8	86	60-140	
Styrene	ug/L	50	44.1	88	60-140	
tert-Butylbenzene	ug/L	50	37.1	74	60-140	
Tetrachloroethene	ug/L	50	42.9	86	60-140	
Toluene	ug/L	50	41.8	84	60-140	
trans-1,2-Dichloroethene	ug/L	50	43.8	88	60-140	
trans-1,3-Dichloropropene	ug/L	50	43.9	88	60-140	
Trichloroethene	ug/L	50	42.7	85	60-140	
Trichlorofluoromethane	ug/L	50	38.7	77	60-140	
Vinyl chloride	ug/L	50	38.3	77	60-140	
1,2-Dichloroethane-d4 (S)	%			95	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507391

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078105 3078106

Parameter	Units	92506739004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	800	800	799	812	100	102	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	800	800	820	847	102	106	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	800	800	570	768	71	96	60-140	30	
1,1,2-Trichloroethane	ug/L	ND	800	800	736	775	92	97	60-140	5	
1,1-Dichloroethane	ug/L	ND	800	800	832	839	104	105	60-140	1	
1,1-Dichloroethene	ug/L	ND	800	800	878	884	110	111	60-140	1	
1,1-Dichloropropene	ug/L	ND	800	800	848	837	106	105	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	800	800	717	765	90	96	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	800	800	599	753	75	94	60-140	23	
1,2,4-Trichlorobenzene	ug/L	ND	800	800	706	735	88	92	60-140	4	
1,2,4-Trimethylbenzene	ug/L	125	800	800	837	862	89	92	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	800	800	790	826	99	103	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	ND	800	800	822	799	103	100	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	800	800	712	735	89	92	60-140	3	
1,2-Dichloroethane	ug/L	ND	800	800	733	728	92	91	60-140	1	
1,2-Dichloropropane	ug/L	ND	800	800	795	816	99	102	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	800	800	747	786	93	98	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	800	800	710	753	89	94	60-140	6	
1,3-Dichloropropane	ug/L	ND	800	800	851	806	106	101	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	800	800	748	765	94	96	60-140	2	
2,2-Dichloropropane	ug/L	ND	800	800	773	784	97	98	60-140	1	
2-Chlorotoluene	ug/L	ND	800	800	748	786	94	98	60-140	5	
4-Chlorotoluene	ug/L	ND	800	800	710	765	89	96	60-140	7	
Benzene	ug/L	3950	800	800	4740	4810	98	107	60-140	1	
Bromobenzene	ug/L	ND	800	800	724	792	90	99	60-140	9	
Bromochloromethane	ug/L	ND	800	800	783	812	98	101	60-140	4	
Bromodichloromethane	ug/L	ND	800	800	770	777	96	97	60-140	1	
Bromoform	ug/L	ND	800	800	622	728	78	91	60-140	16	
Bromomethane	ug/L	ND	800	800	528	762	66	95	60-140	36	R1
Carbon tetrachloride	ug/L	ND	800	800	817	831	102	104	60-140	2	
Chlorobenzene	ug/L	ND	800	800	765	775	96	97	60-140	1	
Chloroethane	ug/L	ND	800	800	826	838	103	105	60-140	1	
Chloroform	ug/L	ND	800	800	771	817	96	102	60-140	6	
Chloromethane	ug/L	ND	800	800	704	746	88	93	60-140	6	
cis-1,2-Dichloroethene	ug/L	ND	800	800	761	763	95	95	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	800	800	797	828	100	103	60-140	4	
Dibromochloromethane	ug/L	ND	800	800	880	831	110	104	60-140	6	
Dibromomethane	ug/L	ND	800	800	750	802	94	100	60-140	7	
Dichlorodifluoromethane	ug/L	ND	800	800	685	701	86	88	60-140	2	
Diisopropyl ether	ug/L	140	800	800	950	934	101	99	60-140	2	
Ethylbenzene	ug/L	660	800	800	1450	1460	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	800	800	816	774	102	97	60-140	5	
Isopropylbenzene (Cumene)	ug/L	51.5	800	800	692	858	80	101	60-140	21	
m&p-Xylene	ug/L	536	1600	1600	1850	2060	82	96	60-140	11	
Methyl-tert-butyl ether	ug/L	ND	800	800	838	832	105	104	60-140	1	
Methylene Chloride	ug/L	ND	800	800	794	806	99	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507391

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078105 3078106

Parameter	Units	92506739004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	800	800	709	748	89	94	60-140	5	
n-Propylbenzene	ug/L	127	800	800	853	911	91	98	60-140	7	
Naphthalene	ug/L	326	800	800	1030	1100	88	97	60-140	6	
o-Xylene	ug/L	90.7	800	800	720	878	79	98	60-140	20	
sec-Butylbenzene	ug/L	ND	800	800	749	804	94	100	60-140	7	
Styrene	ug/L	ND	800	800	611	767	76	96	60-140	23	
tert-Butylbenzene	ug/L	ND	800	800	649	679	81	85	60-140	5	
Tetrachloroethene	ug/L	ND	800	800	866	805	108	101	60-140	7	
Toluene	ug/L	84.8	800	800	836	833	94	94	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	800	800	850	858	106	107	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	800	800	777	796	97	99	60-140	2	
Trichloroethene	ug/L	ND	800	800	799	815	100	102	60-140	2	
Trichlorofluoromethane	ug/L	ND	800	800	836	847	105	106	60-140	1	
Vinyl chloride	ug/L	ND	800	800	763	790	95	99	60-140	4	
1,2-Dichloroethane-d4 (S)	%						104	100	70-130		
4-Bromofluorobenzene (S)	%						80	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92507391

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92507391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92507391001	**FD-111820**	MADEPV	1584076	MADEP VPH	1584076
92507391002	**Field Blank**	MADEPV	1584076	MADEP VPH	1584076
92507391001	**FD-111820**	EPA 3010A	582084	EPA 6010D	582114
92507391002	**Field Blank**	EPA 3010A	582084	EPA 6010D	582114
92507391001	**FD-111820**	SM 6200B	581979		
92507391002	**Field Blank**	SM 6200B	581979		
92507391003	**Trip Blank**	SM 6200B	581979		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB U **WO# : 92507391**

92507391

Number or

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 2020-11-2448	State: NC / County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Matt Traci	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: ASAP 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:

Container 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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 6200B	MADEP VPH	Lead	Lab Sample # / Comments
												92507391
FD_111820	DW	G	11/19	1403				8	X	X	X	001
Field Blank		G	11/19	1734				8	X	X	X	002
Trip Blank		G	11/19					8	X			003
			MF									

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:			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips:			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: ziploc/bubble wrap

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

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

Lab Tracking #: 2560825

Samples received via: (FEDEX) UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 92106U

Cooler 1 Temp Upon Receipt: 3.5 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 3.4 oC

Comments:

Relinquished by/Company: (Signature) Apex	Date/Time: 0830 11/20/20	Received by/Company: (Signature) Apex	Date/Time: 11-20-20/0830
Relinquished by/Company: (Signature) Apex	Date/Time: 11-20-20/1035	Received by/Company: (Signature) MJD Pace HVL	Date/Time: 11-20-20 10:35
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) ID 11-20-20

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.**

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

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

Project # **WO# : 92507391**

PM: AMB Due Date: 12/01/20

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)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1						1 ✓										7													
2						1 ✓										7													
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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.: 92507394

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92507394

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92507394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92507394001	**14401_HC_RD**	MADEP VPH	ADM	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507394

Sample: 14401_HC_RD **Lab ID: 92507394001** Collected: 11/19/20 17:22 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/30/20 17:10	11/30/20 17:10		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/30/20 17:10	11/30/20 17:10		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/30/20 17:10	11/30/20 17:10	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/30/20 17:10	11/30/20 17:10	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.3	%	70.0-130	1	11/30/20 17:10	11/30/20 17:10	615-59-8FID	
2,5-Dibromotoluene (PID)	82.6	%	70.0-130	1	11/30/20 17:10	11/30/20 17:10	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	11/21/20 03:19	11/23/20 22:33	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/20/20 17:35	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/20/20 17:35	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/20/20 17:35	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/20/20 17:35	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/20/20 17:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/20/20 17:35	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/20/20 17:35	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/20/20 17:35	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/20/20 17:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/20/20 17:35	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/20/20 17:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/20 17:35	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/20/20 17:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/20 17:35	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 17:35	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 17:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/20/20 17:35	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/20/20 17:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/20/20 17:35	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/20/20 17:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 17:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 17:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 17:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/20/20 17:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/20/20 17:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/20/20 17:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/20/20 17:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 17:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 17:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 17:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/20/20 17:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 17:35	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507394

Sample: 14401_HC_RD **Lab ID: 92507394001** Collected: 11/19/20 17:22 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/20/20 17:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 17:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 17:35	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/20/20 17:35	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/20/20 17:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/20/20 17:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/20/20 17:35	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/20/20 17:35	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/20/20 17:35	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/20/20 17:35	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/20/20 17:35	103-65-1	
Styrene	ND	ug/L	0.50	1		11/20/20 17:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 17:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 17:35	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/20/20 17:35	127-18-4	
Toluene	ND	ug/L	0.50	1		11/20/20 17:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 17:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 17:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/20/20 17:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/20/20 17:35	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/20/20 17:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/20 17:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/20/20 17:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 17:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 17:35	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/20/20 17:35	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/20/20 17:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/20/20 17:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		11/20/20 17:35	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		11/20/20 17:35	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/20/20 17:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507394

QC Batch: 1584076
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92507394001

METHOD BLANK: R3599157-3 Matrix: Water
Associated Lab Samples: 92507394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/30/20 11:04	
Aliphatic (C09-C12)	ug/L	ND	100	11/30/20 11:04	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/30/20 11:04	
Total VPH	ug/L	ND	100	11/30/20 11:04	
2,5-Dibromotoluene (FID)	%	84.3	70.0-130	11/30/20 11:04	
2,5-Dibromotoluene (PID)	%	78.8	70.0-130	11/30/20 11:04	

LABORATORY CONTROL SAMPLE & LCSD: R3599157-1 R3599157-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1000	988	83.3	82.3	70.0-130	1.21	25	
Aliphatic (C09-C12)	ug/L	1400	1420	1400	101	100	70.0-130	1.42	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	202	198	101	99.0	70.0-130	2.00	25	
Total VPH	ug/L	2800	2620	2590	93.6	92.5	70.0-130	1.15	25	
2,5-Dibromotoluene (FID)	%				95.0	96.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.1	92.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507394

QC Batch: 582084
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92507394001

METHOD BLANK: 3078716 Matrix: Water
Associated Lab Samples: 92507394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/23/20 21:21	

LABORATORY CONTROL SAMPLE: 3078717

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078718 3078719

Parameter	Units	92506490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	253	257	101	102	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507394

QC Batch: 581979
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507394001

METHOD BLANK: 3078103 Matrix: Water
Associated Lab Samples: 92507394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/20/20 14:37	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/20/20 14:37	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/20/20 14:37	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
1,3-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
2,2-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
2-Chlorotoluene	ug/L	ND	0.50	11/20/20 14:37	
4-Chlorotoluene	ug/L	ND	0.50	11/20/20 14:37	
Benzene	ug/L	ND	0.50	11/20/20 14:37	
Bromobenzene	ug/L	ND	0.50	11/20/20 14:37	
Bromochloromethane	ug/L	ND	0.50	11/20/20 14:37	
Bromodichloromethane	ug/L	ND	0.50	11/20/20 14:37	
Bromoform	ug/L	ND	0.50	11/20/20 14:37	
Bromomethane	ug/L	ND	5.0	11/20/20 14:37	
Carbon tetrachloride	ug/L	ND	0.50	11/20/20 14:37	
Chlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
Chloroethane	ug/L	ND	1.0	11/20/20 14:37	
Chloroform	ug/L	ND	0.50	11/20/20 14:37	
Chloromethane	ug/L	ND	1.0	11/20/20 14:37	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
Dibromochloromethane	ug/L	ND	0.50	11/20/20 14:37	
Dibromomethane	ug/L	ND	0.50	11/20/20 14:37	
Dichlorodifluoromethane	ug/L	ND	0.50	11/20/20 14:37	
Diisopropyl ether	ug/L	ND	0.50	11/20/20 14:37	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507394

METHOD BLANK: 3078103 Matrix: Water
Associated Lab Samples: 92507394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/20/20 14:37	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/20/20 14:37	
m&p-Xylene	ug/L	ND	1.0	11/20/20 14:37	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/20/20 14:37	
Methylene Chloride	ug/L	ND	2.0	11/20/20 14:37	
n-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
n-Propylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Naphthalene	ug/L	ND	2.0	11/20/20 14:37	
o-Xylene	ug/L	ND	0.50	11/20/20 14:37	
sec-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Styrene	ug/L	ND	0.50	11/20/20 14:37	
tert-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Tetrachloroethene	ug/L	ND	0.50	11/20/20 14:37	
Toluene	ug/L	ND	0.50	11/20/20 14:37	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
Trichloroethene	ug/L	ND	0.50	11/20/20 14:37	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/20 14:37	
Vinyl chloride	ug/L	ND	1.0	11/20/20 14:37	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/20/20 14:37	
4-Bromofluorobenzene (S)	%	97	70-130	11/20/20 14:37	
Toluene-d8 (S)	%	102	70-130	11/20/20 14:37	

LABORATORY CONTROL SAMPLE: 3078104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.8	90	60-140	
1,1,1-Trichloroethane	ug/L	50	43.6	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	43.2	86	60-140	
1,1,2-Trichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethane	ug/L	50	42.7	85	60-140	
1,1-Dichloroethene	ug/L	50	43.1	86	60-140	
1,1-Dichloropropene	ug/L	50	43.3	87	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.0	94	60-140	
1,2,3-Trichloropropane	ug/L	50	41.6	83	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.3	93	60-140	
1,2,4-Trimethylbenzene	ug/L	50	42.1	84	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	45.0	90	60-140	
1,2-Dichlorobenzene	ug/L	50	42.9	86	60-140	
1,2-Dichloroethane	ug/L	50	39.1	78	60-140	
1,2-Dichloropropane	ug/L	50	44.8	90	60-140	
1,3,5-Trimethylbenzene	ug/L	50	42.7	85	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507394

LABORATORY CONTROL SAMPLE: 3078104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	44.1	88	60-140	
1,3-Dichloropropane	ug/L	50	45.0	90	60-140	
1,4-Dichlorobenzene	ug/L	50	44.2	88	60-140	
2,2-Dichloropropane	ug/L	50	42.8	86	60-140	
2-Chlorotoluene	ug/L	50	43.7	87	60-140	
4-Chlorotoluene	ug/L	50	42.6	85	60-140	
Benzene	ug/L	50	43.1	86	60-140	
Bromobenzene	ug/L	50	43.8	88	60-140	
Bromochloromethane	ug/L	50	43.0	86	60-140	
Bromodichloromethane	ug/L	50	43.1	86	60-140	
Bromoform	ug/L	50	43.2	86	60-140	
Bromomethane	ug/L	50	41.7	83	60-140	
Carbon tetrachloride	ug/L	50	42.3	85	60-140	
Chlorobenzene	ug/L	50	42.8	86	60-140	
Chloroethane	ug/L	50	39.3	79	60-140	
Chloroform	ug/L	50	43.6	87	60-140	
Chloromethane	ug/L	50	38.9	78	60-140	
cis-1,2-Dichloroethene	ug/L	50	40.8	82	60-140	
cis-1,3-Dichloropropene	ug/L	50	45.4	91	60-140	
Dibromochloromethane	ug/L	50	47.6	95	60-140	
Dibromomethane	ug/L	50	43.0	86	60-140	
Dichlorodifluoromethane	ug/L	50	37.3	75	60-140	
Diisopropyl ether	ug/L	50	41.2	82	60-140	
Ethylbenzene	ug/L	50	42.4	85	60-140	
Hexachloro-1,3-butadiene	ug/L	50	44.6	89	60-140	
Isopropylbenzene (Cumene)	ug/L	50	43.5	87	60-140	
m&p-Xylene	ug/L	100	85.4	85	60-140	
Methyl-tert-butyl ether	ug/L	50	42.8	86	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	43.1	86	60-140	
n-Propylbenzene	ug/L	50	42.5	85	60-140	
Naphthalene	ug/L	50	48.3	97	60-140	
o-Xylene	ug/L	50	43.5	87	60-140	
sec-Butylbenzene	ug/L	50	42.8	86	60-140	
Styrene	ug/L	50	44.1	88	60-140	
tert-Butylbenzene	ug/L	50	37.1	74	60-140	
Tetrachloroethene	ug/L	50	42.9	86	60-140	
Toluene	ug/L	50	41.8	84	60-140	
trans-1,2-Dichloroethene	ug/L	50	43.8	88	60-140	
trans-1,3-Dichloropropene	ug/L	50	43.9	88	60-140	
Trichloroethene	ug/L	50	42.7	85	60-140	
Trichlorofluoromethane	ug/L	50	38.7	77	60-140	
Vinyl chloride	ug/L	50	38.3	77	60-140	
1,2-Dichloroethane-d4 (S)	%			95	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507394

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078105 3078106

Parameter	Units	92506739004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	800	800	799	812	100	102	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	800	800	820	847	102	106	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	800	800	570	768	71	96	60-140	30	
1,1,2-Trichloroethane	ug/L	ND	800	800	736	775	92	97	60-140	5	
1,1-Dichloroethane	ug/L	ND	800	800	832	839	104	105	60-140	1	
1,1-Dichloroethene	ug/L	ND	800	800	878	884	110	111	60-140	1	
1,1-Dichloropropene	ug/L	ND	800	800	848	837	106	105	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	800	800	717	765	90	96	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	800	800	599	753	75	94	60-140	23	
1,2,4-Trichlorobenzene	ug/L	ND	800	800	706	735	88	92	60-140	4	
1,2,4-Trimethylbenzene	ug/L	125	800	800	837	862	89	92	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	800	800	790	826	99	103	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	ND	800	800	822	799	103	100	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	800	800	712	735	89	92	60-140	3	
1,2-Dichloroethane	ug/L	ND	800	800	733	728	92	91	60-140	1	
1,2-Dichloropropane	ug/L	ND	800	800	795	816	99	102	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	800	800	747	786	93	98	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	800	800	710	753	89	94	60-140	6	
1,3-Dichloropropane	ug/L	ND	800	800	851	806	106	101	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	800	800	748	765	94	96	60-140	2	
2,2-Dichloropropane	ug/L	ND	800	800	773	784	97	98	60-140	1	
2-Chlorotoluene	ug/L	ND	800	800	748	786	94	98	60-140	5	
4-Chlorotoluene	ug/L	ND	800	800	710	765	89	96	60-140	7	
Benzene	ug/L	3950	800	800	4740	4810	98	107	60-140	1	
Bromobenzene	ug/L	ND	800	800	724	792	90	99	60-140	9	
Bromochloromethane	ug/L	ND	800	800	783	812	98	101	60-140	4	
Bromodichloromethane	ug/L	ND	800	800	770	777	96	97	60-140	1	
Bromoform	ug/L	ND	800	800	622	728	78	91	60-140	16	
Bromomethane	ug/L	ND	800	800	528	762	66	95	60-140	36	R1
Carbon tetrachloride	ug/L	ND	800	800	817	831	102	104	60-140	2	
Chlorobenzene	ug/L	ND	800	800	765	775	96	97	60-140	1	
Chloroethane	ug/L	ND	800	800	826	838	103	105	60-140	1	
Chloroform	ug/L	ND	800	800	771	817	96	102	60-140	6	
Chloromethane	ug/L	ND	800	800	704	746	88	93	60-140	6	
cis-1,2-Dichloroethene	ug/L	ND	800	800	761	763	95	95	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	800	800	797	828	100	103	60-140	4	
Dibromochloromethane	ug/L	ND	800	800	880	831	110	104	60-140	6	
Dibromomethane	ug/L	ND	800	800	750	802	94	100	60-140	7	
Dichlorodifluoromethane	ug/L	ND	800	800	685	701	86	88	60-140	2	
Diisopropyl ether	ug/L	140	800	800	950	934	101	99	60-140	2	
Ethylbenzene	ug/L	660	800	800	1450	1460	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	800	800	816	774	102	97	60-140	5	
Isopropylbenzene (Cumene)	ug/L	51.5	800	800	692	858	80	101	60-140	21	
m&p-Xylene	ug/L	536	1600	1600	1850	2060	82	96	60-140	11	
Methyl-tert-butyl ether	ug/L	ND	800	800	838	832	105	104	60-140	1	
Methylene Chloride	ug/L	ND	800	800	794	806	99	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507394

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078105 3078106

Parameter	Units	92506739004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	800	800	709	748	89	94	60-140	5	
n-Propylbenzene	ug/L	127	800	800	853	911	91	98	60-140	7	
Naphthalene	ug/L	326	800	800	1030	1100	88	97	60-140	6	
o-Xylene	ug/L	90.7	800	800	720	878	79	98	60-140	20	
sec-Butylbenzene	ug/L	ND	800	800	749	804	94	100	60-140	7	
Styrene	ug/L	ND	800	800	611	767	76	96	60-140	23	
tert-Butylbenzene	ug/L	ND	800	800	649	679	81	85	60-140	5	
Tetrachloroethene	ug/L	ND	800	800	866	805	108	101	60-140	7	
Toluene	ug/L	84.8	800	800	836	833	94	94	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	800	800	850	858	106	107	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	800	800	777	796	97	99	60-140	2	
Trichloroethene	ug/L	ND	800	800	799	815	100	102	60-140	2	
Trichlorofluoromethane	ug/L	ND	800	800	836	847	105	106	60-140	1	
Vinyl chloride	ug/L	ND	800	800	763	790	95	99	60-140	4	
1,2-Dichloroethane-d4 (S)	%						104	100	70-130		
4-Bromofluorobenzene (S)	%						80	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92507394

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92507394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92507394001	**14401_HC_RD**	MADEPV	1584076	MADEP VPH	1584076
92507394001	**14401_HC_RD**	EPA 3010A	582084	EPA 6010D	582114
92507394001	**14401_HC_RD**	SM 6200B	581979		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ... Number or

WO#: 92507394

92507394

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To:
Copy To:	Site Collection Info/Address: 14401 HC RD
Customer Project Name/Number: 2020-LI-2448	State: NC / County/City: Huntersville / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone: Email:	Site/Facility ID #:	Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Matt Fraid.	Purchase Order #: Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature): [signature]	Turnaround Date Required: ASAP	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)

Container ...

** 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 Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Analyses: 620 B	MAPEP VPH	Lead	Lab Profile/Line: Lab Sample # / Comments:
14401 HC RD	DW	G	11/19 MF	1722				8	X	X	X	92507394 001

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: ____
- Sulfide Present Y N (NA)
- Lead Acetate Strips: ____

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Ziploc / bubble wrap

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

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

Lab Tracking #: 2560824

Samples received via: (FEDEX) UPS Client Courier Pace Courier

Lab Sample Temperature Info:
- Temp Blank Received: Y (N) NA
- Therm ID#: 92T064
- Cooler 1 Temp Upon Receipt: 3.5 oC
- Cooler 1 Therm Corr. Factor: -0.1 oC
- Cooler 1 Corrected Temp: 3.4 oC
- Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
[signature] / Apex	11/20/20 0830	[signature] / Apex	11-20-20/0830	Table #: Acctnum:
[signature] / Apex	11-20-20/1035	MDC/PACE HV	11-20-20 10:35	Template: Prelogin:
				PM: PB:

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.**

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

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

Project # **WO#: 92507394**

PM: AMB Due Date: 12/01/20

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)	SPST-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✓										2																											
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92507396

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised laboratory report is being submitted on 12/4/2020 to revise the sample ID, per client request.

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92507396

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92507396

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92507396001	**14226_HC_RD**	MADEP VPH	ADM	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507396

Sample: 14226_HC_RD **Lab ID: 92507396001** Collected: 11/19/20 16:18 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/30/20 11:37	11/30/20 11:37		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/30/20 11:37	11/30/20 11:37		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/30/20 11:37	11/30/20 11:37	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/30/20 11:37	11/30/20 11:37	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.4	%	70.0-130	1	11/30/20 11:37	11/30/20 11:37	615-59-8FID	
2,5-Dibromotoluene (PID)	82.2	%	70.0-130	1	11/30/20 11:37	11/30/20 11:37	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	11/21/20 03:19	11/23/20 22:36	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/20/20 17:53	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/20/20 17:53	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/20/20 17:53	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/20/20 17:53	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/20/20 17:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/20/20 17:53	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/20/20 17:53	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/20/20 17:53	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/20/20 17:53	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/20/20 17:53	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/20/20 17:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/20 17:53	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/20/20 17:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/20 17:53	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 17:53	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 17:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/20/20 17:53	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/20/20 17:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/20/20 17:53	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/20/20 17:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 17:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 17:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 17:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/20/20 17:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/20/20 17:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/20/20 17:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/20/20 17:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 17:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 17:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 17:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/20/20 17:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 17:53	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507396

Sample: 14226_HC_RD **Lab ID: 92507396001** Collected: 11/19/20 16:18 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/20/20 17:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 17:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 17:53	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/20/20 17:53	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/20/20 17:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/20/20 17:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/20/20 17:53	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/20/20 17:53	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/20/20 17:53	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/20/20 17:53	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/20/20 17:53	103-65-1	
Styrene	ND	ug/L	0.50	1		11/20/20 17:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 17:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 17:53	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/20/20 17:53	127-18-4	
Toluene	ND	ug/L	0.50	1		11/20/20 17:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 17:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 17:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/20/20 17:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/20/20 17:53	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/20/20 17:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/20 17:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/20/20 17:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 17:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 17:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/20/20 17:53	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/20/20 17:53	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/20/20 17:53	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/20/20 17:53	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		11/20/20 17:53	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/20/20 17:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507396

QC Batch: 1584076
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92507396001

METHOD BLANK: R3599157-3 Matrix: Water
Associated Lab Samples: 92507396001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/30/20 11:04	
Aliphatic (C09-C12)	ug/L	ND	100	11/30/20 11:04	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/30/20 11:04	
Total VPH	ug/L	ND	100	11/30/20 11:04	
2,5-Dibromotoluene (FID)	%	84.3	70.0-130	11/30/20 11:04	
2,5-Dibromotoluene (PID)	%	78.8	70.0-130	11/30/20 11:04	

LABORATORY CONTROL SAMPLE & LCSD: R3599157-1 R3599157-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1000	988	83.3	82.3	70.0-130	1.21	25	
Aliphatic (C09-C12)	ug/L	1400	1420	1400	101	100	70.0-130	1.42	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	202	198	101	99.0	70.0-130	2.00	25	
Total VPH	ug/L	2800	2620	2590	93.6	92.5	70.0-130	1.15	25	
2,5-Dibromotoluene (FID)	%				95.0	96.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.1	92.0	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3599157-4 R3599157-5

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aliphatic (C05-C08)	ug/L		1200	1200	992	1180	82.7	98.3	70.0-130	17.3	
Aliphatic (C09-C12)	ug/L		1400	1400	1420	1690	101	121	70.0-130	17.4	
Aromatic (C09-C10),Unadjusted	ug/L		200	200	197	231	98.5	116	70.0-130	15.9	
Total VPH	ug/L		2800	2800	2610	3100	93.2	111	70.0-130	17.2	
2,5-Dibromotoluene (FID)	%						95.9	97.8	70.0-130		
2,5-Dibromotoluene (PID)	%						90.2	94.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507396

QC Batch: 582084
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92507396001

METHOD BLANK: 3078716 Matrix: Water
Associated Lab Samples: 92507396001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/23/20 21:21	

LABORATORY CONTROL SAMPLE: 3078717

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078718 3078719

Parameter	Units	92506490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	253	257	101	102	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507396

QC Batch: 581979
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507396001

METHOD BLANK: 3078103 Matrix: Water
Associated Lab Samples: 92507396001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/20/20 14:37	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/20/20 14:37	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/20/20 14:37	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
1,3-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
2,2-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
2-Chlorotoluene	ug/L	ND	0.50	11/20/20 14:37	
4-Chlorotoluene	ug/L	ND	0.50	11/20/20 14:37	
Benzene	ug/L	ND	0.50	11/20/20 14:37	
Bromobenzene	ug/L	ND	0.50	11/20/20 14:37	
Bromochloromethane	ug/L	ND	0.50	11/20/20 14:37	
Bromodichloromethane	ug/L	ND	0.50	11/20/20 14:37	
Bromoform	ug/L	ND	0.50	11/20/20 14:37	
Bromomethane	ug/L	ND	5.0	11/20/20 14:37	
Carbon tetrachloride	ug/L	ND	0.50	11/20/20 14:37	
Chlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
Chloroethane	ug/L	ND	1.0	11/20/20 14:37	
Chloroform	ug/L	ND	0.50	11/20/20 14:37	
Chloromethane	ug/L	ND	1.0	11/20/20 14:37	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
Dibromochloromethane	ug/L	ND	0.50	11/20/20 14:37	
Dibromomethane	ug/L	ND	0.50	11/20/20 14:37	
Dichlorodifluoromethane	ug/L	ND	0.50	11/20/20 14:37	
Diisopropyl ether	ug/L	ND	0.50	11/20/20 14:37	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507396

METHOD BLANK: 3078103 Matrix: Water
Associated Lab Samples: 92507396001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/20/20 14:37	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/20/20 14:37	
m&p-Xylene	ug/L	ND	1.0	11/20/20 14:37	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/20/20 14:37	
Methylene Chloride	ug/L	ND	2.0	11/20/20 14:37	
n-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
n-Propylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Naphthalene	ug/L	ND	2.0	11/20/20 14:37	
o-Xylene	ug/L	ND	0.50	11/20/20 14:37	
sec-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Styrene	ug/L	ND	0.50	11/20/20 14:37	
tert-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Tetrachloroethene	ug/L	ND	0.50	11/20/20 14:37	
Toluene	ug/L	ND	0.50	11/20/20 14:37	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
Trichloroethene	ug/L	ND	0.50	11/20/20 14:37	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/20 14:37	
Vinyl chloride	ug/L	ND	1.0	11/20/20 14:37	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/20/20 14:37	
4-Bromofluorobenzene (S)	%	97	70-130	11/20/20 14:37	
Toluene-d8 (S)	%	102	70-130	11/20/20 14:37	

LABORATORY CONTROL SAMPLE: 3078104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.8	90	60-140	
1,1,1-Trichloroethane	ug/L	50	43.6	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	43.2	86	60-140	
1,1,2-Trichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethane	ug/L	50	42.7	85	60-140	
1,1-Dichloroethene	ug/L	50	43.1	86	60-140	
1,1-Dichloropropene	ug/L	50	43.3	87	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.0	94	60-140	
1,2,3-Trichloropropane	ug/L	50	41.6	83	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.3	93	60-140	
1,2,4-Trimethylbenzene	ug/L	50	42.1	84	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	45.0	90	60-140	
1,2-Dichlorobenzene	ug/L	50	42.9	86	60-140	
1,2-Dichloroethane	ug/L	50	39.1	78	60-140	
1,2-Dichloropropane	ug/L	50	44.8	90	60-140	
1,3,5-Trimethylbenzene	ug/L	50	42.7	85	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507396

LABORATORY CONTROL SAMPLE: 3078104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	44.1	88	60-140	
1,3-Dichloropropane	ug/L	50	45.0	90	60-140	
1,4-Dichlorobenzene	ug/L	50	44.2	88	60-140	
2,2-Dichloropropane	ug/L	50	42.8	86	60-140	
2-Chlorotoluene	ug/L	50	43.7	87	60-140	
4-Chlorotoluene	ug/L	50	42.6	85	60-140	
Benzene	ug/L	50	43.1	86	60-140	
Bromobenzene	ug/L	50	43.8	88	60-140	
Bromochloromethane	ug/L	50	43.0	86	60-140	
Bromodichloromethane	ug/L	50	43.1	86	60-140	
Bromoform	ug/L	50	43.2	86	60-140	
Bromomethane	ug/L	50	41.7	83	60-140	
Carbon tetrachloride	ug/L	50	42.3	85	60-140	
Chlorobenzene	ug/L	50	42.8	86	60-140	
Chloroethane	ug/L	50	39.3	79	60-140	
Chloroform	ug/L	50	43.6	87	60-140	
Chloromethane	ug/L	50	38.9	78	60-140	
cis-1,2-Dichloroethene	ug/L	50	40.8	82	60-140	
cis-1,3-Dichloropropene	ug/L	50	45.4	91	60-140	
Dibromochloromethane	ug/L	50	47.6	95	60-140	
Dibromomethane	ug/L	50	43.0	86	60-140	
Dichlorodifluoromethane	ug/L	50	37.3	75	60-140	
Diisopropyl ether	ug/L	50	41.2	82	60-140	
Ethylbenzene	ug/L	50	42.4	85	60-140	
Hexachloro-1,3-butadiene	ug/L	50	44.6	89	60-140	
Isopropylbenzene (Cumene)	ug/L	50	43.5	87	60-140	
m&p-Xylene	ug/L	100	85.4	85	60-140	
Methyl-tert-butyl ether	ug/L	50	42.8	86	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	43.1	86	60-140	
n-Propylbenzene	ug/L	50	42.5	85	60-140	
Naphthalene	ug/L	50	48.3	97	60-140	
o-Xylene	ug/L	50	43.5	87	60-140	
sec-Butylbenzene	ug/L	50	42.8	86	60-140	
Styrene	ug/L	50	44.1	88	60-140	
tert-Butylbenzene	ug/L	50	37.1	74	60-140	
Tetrachloroethene	ug/L	50	42.9	86	60-140	
Toluene	ug/L	50	41.8	84	60-140	
trans-1,2-Dichloroethene	ug/L	50	43.8	88	60-140	
trans-1,3-Dichloropropene	ug/L	50	43.9	88	60-140	
Trichloroethene	ug/L	50	42.7	85	60-140	
Trichlorofluoromethane	ug/L	50	38.7	77	60-140	
Vinyl chloride	ug/L	50	38.3	77	60-140	
1,2-Dichloroethane-d4 (S)	%			95	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507396

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078105 3078106

Parameter	Units	92506739004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	800	800	799	812	100	102	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	800	800	820	847	102	106	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	800	800	570	768	71	96	60-140	30	
1,1,2-Trichloroethane	ug/L	ND	800	800	736	775	92	97	60-140	5	
1,1-Dichloroethane	ug/L	ND	800	800	832	839	104	105	60-140	1	
1,1-Dichloroethene	ug/L	ND	800	800	878	884	110	111	60-140	1	
1,1-Dichloropropene	ug/L	ND	800	800	848	837	106	105	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	800	800	717	765	90	96	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	800	800	599	753	75	94	60-140	23	
1,2,4-Trichlorobenzene	ug/L	ND	800	800	706	735	88	92	60-140	4	
1,2,4-Trimethylbenzene	ug/L	125	800	800	837	862	89	92	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	800	800	790	826	99	103	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	ND	800	800	822	799	103	100	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	800	800	712	735	89	92	60-140	3	
1,2-Dichloroethane	ug/L	ND	800	800	733	728	92	91	60-140	1	
1,2-Dichloropropane	ug/L	ND	800	800	795	816	99	102	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	800	800	747	786	93	98	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	800	800	710	753	89	94	60-140	6	
1,3-Dichloropropane	ug/L	ND	800	800	851	806	106	101	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	800	800	748	765	94	96	60-140	2	
2,2-Dichloropropane	ug/L	ND	800	800	773	784	97	98	60-140	1	
2-Chlorotoluene	ug/L	ND	800	800	748	786	94	98	60-140	5	
4-Chlorotoluene	ug/L	ND	800	800	710	765	89	96	60-140	7	
Benzene	ug/L	3950	800	800	4740	4810	98	107	60-140	1	
Bromobenzene	ug/L	ND	800	800	724	792	90	99	60-140	9	
Bromochloromethane	ug/L	ND	800	800	783	812	98	101	60-140	4	
Bromodichloromethane	ug/L	ND	800	800	770	777	96	97	60-140	1	
Bromoform	ug/L	ND	800	800	622	728	78	91	60-140	16	
Bromomethane	ug/L	ND	800	800	528	762	66	95	60-140	36	R1
Carbon tetrachloride	ug/L	ND	800	800	817	831	102	104	60-140	2	
Chlorobenzene	ug/L	ND	800	800	765	775	96	97	60-140	1	
Chloroethane	ug/L	ND	800	800	826	838	103	105	60-140	1	
Chloroform	ug/L	ND	800	800	771	817	96	102	60-140	6	
Chloromethane	ug/L	ND	800	800	704	746	88	93	60-140	6	
cis-1,2-Dichloroethene	ug/L	ND	800	800	761	763	95	95	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	800	800	797	828	100	103	60-140	4	
Dibromochloromethane	ug/L	ND	800	800	880	831	110	104	60-140	6	
Dibromomethane	ug/L	ND	800	800	750	802	94	100	60-140	7	
Dichlorodifluoromethane	ug/L	ND	800	800	685	701	86	88	60-140	2	
Diisopropyl ether	ug/L	140	800	800	950	934	101	99	60-140	2	
Ethylbenzene	ug/L	660	800	800	1450	1460	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	800	800	816	774	102	97	60-140	5	
Isopropylbenzene (Cumene)	ug/L	51.5	800	800	692	858	80	101	60-140	21	
m&p-Xylene	ug/L	536	1600	1600	1850	2060	82	96	60-140	11	
Methyl-tert-butyl ether	ug/L	ND	800	800	838	832	105	104	60-140	1	
Methylene Chloride	ug/L	ND	800	800	794	806	99	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507396

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078105 3078106

Parameter	Units	92506739004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	800	800	709	748	89	94	60-140	5	
n-Propylbenzene	ug/L	127	800	800	853	911	91	98	60-140	7	
Naphthalene	ug/L	326	800	800	1030	1100	88	97	60-140	6	
o-Xylene	ug/L	90.7	800	800	720	878	79	98	60-140	20	
sec-Butylbenzene	ug/L	ND	800	800	749	804	94	100	60-140	7	
Styrene	ug/L	ND	800	800	611	767	76	96	60-140	23	
tert-Butylbenzene	ug/L	ND	800	800	649	679	81	85	60-140	5	
Tetrachloroethene	ug/L	ND	800	800	866	805	108	101	60-140	7	
Toluene	ug/L	84.8	800	800	836	833	94	94	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	800	800	850	858	106	107	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	800	800	777	796	97	99	60-140	2	
Trichloroethene	ug/L	ND	800	800	799	815	100	102	60-140	2	
Trichlorofluoromethane	ug/L	ND	800	800	836	847	105	106	60-140	1	
Vinyl chloride	ug/L	ND	800	800	763	790	95	99	60-140	4	
1,2-Dichloroethane-d4 (S)	%						104	100	70-130		
4-Bromofluorobenzene (S)	%						80	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92507396

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92507396

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92507396001	**14226_HC_RD**	MADEPV	1584076	MADEP VPH	1584076
92507396001	**14226_HC_RD**	EPA 3010A	582084	EPA 6010D	582114
92507396001	**14226_HC_RD**	SM 6200B	581979		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92507396

92507396

order Number or

NLY

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To:
Copy To:	Site Collection Info/Address: 14226 AC RD
Customer Project Name/Number: 2020-11-2448	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: Email:	Site/Facility ID #:
Collected By (print): Matt Faidi	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: ASAP
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [✓] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [✓] Yes [ ] No

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

Analysis: _____

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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 6200B	MADEP VPH	Lead							Lab Profile/Line:
14226 AC RD	DW	G	11/19	1618				8	X	X	X							92507396 001
			MF															

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)
Sample pH Acceptable	(Y)	N	NA
Sulfide Present	Y	N	(NA)

Cl Strips: _____

pH Strips: _____

Lead Acetate Strips: _____

LAB USE ONLY:

Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Ziplocbubble wrap

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

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

Lab Tracking #: 2560823

Samples received via: (FEDEX) UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 6270164

Cooler 1 Temp Upon Receipt: 3.5 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 3.4 oC

Comments:

Relinquished by/Company: (Signature) Apex	Date/Time: 0830 11/20/20	Received by/Company: (Signature) Apex	Date/Time: 11-20-20/0830	MTJL LAB USE ONLY
Relinquished by/Company: (Signature) Apex	Date/Time: 11-20-20/1035	Received by/Company: (Signature) MDG Pace HVL	Date/Time: 11-20-20 10:35	Table #: Acctnum: Template: Prelogin: PM: PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

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.**

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

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

Project # **WO# : 92507396**

PM: AMB Due Date: 12/01/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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.: 92507397

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92507397

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92507397

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92507397001	**13945_AC_RD**	MADEP VPH	ADM	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507397

Sample: 13945_AC_RD **Lab ID: 92507397001** Collected: 11/19/20 14:56 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/30/20 16:36	11/30/20 16:36		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/30/20 16:36	11/30/20 16:36		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/30/20 16:36	11/30/20 16:36	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/30/20 16:36	11/30/20 16:36	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.8	%	70.0-130	1	11/30/20 16:36	11/30/20 16:36	615-59-8FID	
2,5-Dibromotoluene (PID)	84.6	%	70.0-130	1	11/30/20 16:36	11/30/20 16:36	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	11/21/20 03:19	11/23/20 22:39	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/20/20 18:11	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/20/20 18:11	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/20/20 18:11	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/20/20 18:11	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/20/20 18:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/20/20 18:11	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/20/20 18:11	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/20/20 18:11	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/20/20 18:11	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/20/20 18:11	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/20/20 18:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/20 18:11	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/20/20 18:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/20 18:11	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 18:11	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 18:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/20/20 18:11	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/20/20 18:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/20/20 18:11	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/20/20 18:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 18:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 18:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 18:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/20/20 18:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/20/20 18:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/20/20 18:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/20/20 18:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 18:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 18:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 18:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/20/20 18:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 18:11	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507397

Sample: 13945_AC_RD **Lab ID: 92507397001** Collected: 11/19/20 14:56 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/20/20 18:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 18:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 18:11	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/20/20 18:11	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/20/20 18:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/20/20 18:11	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/20/20 18:11	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/20/20 18:11	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/20/20 18:11	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/20/20 18:11	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/20/20 18:11	103-65-1	
Styrene	ND	ug/L	0.50	1		11/20/20 18:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 18:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 18:11	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/20/20 18:11	127-18-4	
Toluene	ND	ug/L	0.50	1		11/20/20 18:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 18:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 18:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/20/20 18:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/20/20 18:11	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/20/20 18:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/20 18:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/20/20 18:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 18:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 18:11	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/20/20 18:11	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/20/20 18:11	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/20/20 18:11	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/20/20 18:11	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/20/20 18:11	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		11/20/20 18:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507397

QC Batch: 1584076
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92507397001

METHOD BLANK: R3599157-3 Matrix: Water
Associated Lab Samples: 92507397001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/30/20 11:04	
Aliphatic (C09-C12)	ug/L	ND	100	11/30/20 11:04	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/30/20 11:04	
Total VPH	ug/L	ND	100	11/30/20 11:04	
2,5-Dibromotoluene (FID)	%	84.3	70.0-130	11/30/20 11:04	
2,5-Dibromotoluene (PID)	%	78.8	70.0-130	11/30/20 11:04	

LABORATORY CONTROL SAMPLE & LCSD: R3599157-1 R3599157-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1000	988	83.3	82.3	70.0-130	1.21	25	
Aliphatic (C09-C12)	ug/L	1400	1420	1400	101	100	70.0-130	1.42	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	202	198	101	99.0	70.0-130	2.00	25	
Total VPH	ug/L	2800	2620	2590	93.6	92.5	70.0-130	1.15	25	
2,5-Dibromotoluene (FID)	%				95.0	96.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.1	92.0	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3599157-4 R3599157-5

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aliphatic (C05-C08)	ug/L		1200	1200	992	1180	82.7	98.3	70.0-130	17.3	
Aliphatic (C09-C12)	ug/L		1400	1400	1420	1690	101	121	70.0-130	17.4	
Aromatic (C09-C10),Unadjusted	ug/L		200	200	197	231	98.5	116	70.0-130	15.9	
Total VPH	ug/L		2800	2800	2610	3100	93.2	111	70.0-130	17.2	
2,5-Dibromotoluene (FID)	%						95.9	97.8	70.0-130		
2,5-Dibromotoluene (PID)	%						90.2	94.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507397

QC Batch: 582084
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92507397001

METHOD BLANK: 3078716 Matrix: Water
Associated Lab Samples: 92507397001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/23/20 21:21	

LABORATORY CONTROL SAMPLE: 3078717

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078718 3078719

Parameter	Units	92506490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	253	257	101	102	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507397

QC Batch: 581979
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507397001

METHOD BLANK: 3078103 Matrix: Water
Associated Lab Samples: 92507397001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/20/20 14:37	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/20/20 14:37	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/20/20 14:37	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
1,3-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
2,2-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
2-Chlorotoluene	ug/L	ND	0.50	11/20/20 14:37	
4-Chlorotoluene	ug/L	ND	0.50	11/20/20 14:37	
Benzene	ug/L	ND	0.50	11/20/20 14:37	
Bromobenzene	ug/L	ND	0.50	11/20/20 14:37	
Bromochloromethane	ug/L	ND	0.50	11/20/20 14:37	
Bromodichloromethane	ug/L	ND	0.50	11/20/20 14:37	
Bromoform	ug/L	ND	0.50	11/20/20 14:37	
Bromomethane	ug/L	ND	5.0	11/20/20 14:37	
Carbon tetrachloride	ug/L	ND	0.50	11/20/20 14:37	
Chlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
Chloroethane	ug/L	ND	1.0	11/20/20 14:37	
Chloroform	ug/L	ND	0.50	11/20/20 14:37	
Chloromethane	ug/L	ND	1.0	11/20/20 14:37	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
Dibromochloromethane	ug/L	ND	0.50	11/20/20 14:37	
Dibromomethane	ug/L	ND	0.50	11/20/20 14:37	
Dichlorodifluoromethane	ug/L	ND	0.50	11/20/20 14:37	
Diisopropyl ether	ug/L	ND	0.50	11/20/20 14:37	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507397

METHOD BLANK: 3078103 Matrix: Water
Associated Lab Samples: 92507397001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/20/20 14:37	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/20/20 14:37	
m&p-Xylene	ug/L	ND	1.0	11/20/20 14:37	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/20/20 14:37	
Methylene Chloride	ug/L	ND	2.0	11/20/20 14:37	
n-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
n-Propylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Naphthalene	ug/L	ND	2.0	11/20/20 14:37	
o-Xylene	ug/L	ND	0.50	11/20/20 14:37	
sec-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Styrene	ug/L	ND	0.50	11/20/20 14:37	
tert-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Tetrachloroethene	ug/L	ND	0.50	11/20/20 14:37	
Toluene	ug/L	ND	0.50	11/20/20 14:37	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
Trichloroethene	ug/L	ND	0.50	11/20/20 14:37	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/20 14:37	
Vinyl chloride	ug/L	ND	1.0	11/20/20 14:37	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/20/20 14:37	
4-Bromofluorobenzene (S)	%	97	70-130	11/20/20 14:37	
Toluene-d8 (S)	%	102	70-130	11/20/20 14:37	

LABORATORY CONTROL SAMPLE: 3078104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.8	90	60-140	
1,1,1-Trichloroethane	ug/L	50	43.6	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	43.2	86	60-140	
1,1,2-Trichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethane	ug/L	50	42.7	85	60-140	
1,1-Dichloroethene	ug/L	50	43.1	86	60-140	
1,1-Dichloropropene	ug/L	50	43.3	87	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.0	94	60-140	
1,2,3-Trichloropropane	ug/L	50	41.6	83	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.3	93	60-140	
1,2,4-Trimethylbenzene	ug/L	50	42.1	84	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	45.0	90	60-140	
1,2-Dichlorobenzene	ug/L	50	42.9	86	60-140	
1,2-Dichloroethane	ug/L	50	39.1	78	60-140	
1,2-Dichloropropane	ug/L	50	44.8	90	60-140	
1,3,5-Trimethylbenzene	ug/L	50	42.7	85	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507397

LABORATORY CONTROL SAMPLE: 3078104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	44.1	88	60-140	
1,3-Dichloropropane	ug/L	50	45.0	90	60-140	
1,4-Dichlorobenzene	ug/L	50	44.2	88	60-140	
2,2-Dichloropropane	ug/L	50	42.8	86	60-140	
2-Chlorotoluene	ug/L	50	43.7	87	60-140	
4-Chlorotoluene	ug/L	50	42.6	85	60-140	
Benzene	ug/L	50	43.1	86	60-140	
Bromobenzene	ug/L	50	43.8	88	60-140	
Bromochloromethane	ug/L	50	43.0	86	60-140	
Bromodichloromethane	ug/L	50	43.1	86	60-140	
Bromoform	ug/L	50	43.2	86	60-140	
Bromomethane	ug/L	50	41.7	83	60-140	
Carbon tetrachloride	ug/L	50	42.3	85	60-140	
Chlorobenzene	ug/L	50	42.8	86	60-140	
Chloroethane	ug/L	50	39.3	79	60-140	
Chloroform	ug/L	50	43.6	87	60-140	
Chloromethane	ug/L	50	38.9	78	60-140	
cis-1,2-Dichloroethene	ug/L	50	40.8	82	60-140	
cis-1,3-Dichloropropene	ug/L	50	45.4	91	60-140	
Dibromochloromethane	ug/L	50	47.6	95	60-140	
Dibromomethane	ug/L	50	43.0	86	60-140	
Dichlorodifluoromethane	ug/L	50	37.3	75	60-140	
Diisopropyl ether	ug/L	50	41.2	82	60-140	
Ethylbenzene	ug/L	50	42.4	85	60-140	
Hexachloro-1,3-butadiene	ug/L	50	44.6	89	60-140	
Isopropylbenzene (Cumene)	ug/L	50	43.5	87	60-140	
m&p-Xylene	ug/L	100	85.4	85	60-140	
Methyl-tert-butyl ether	ug/L	50	42.8	86	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	43.1	86	60-140	
n-Propylbenzene	ug/L	50	42.5	85	60-140	
Naphthalene	ug/L	50	48.3	97	60-140	
o-Xylene	ug/L	50	43.5	87	60-140	
sec-Butylbenzene	ug/L	50	42.8	86	60-140	
Styrene	ug/L	50	44.1	88	60-140	
tert-Butylbenzene	ug/L	50	37.1	74	60-140	
Tetrachloroethene	ug/L	50	42.9	86	60-140	
Toluene	ug/L	50	41.8	84	60-140	
trans-1,2-Dichloroethene	ug/L	50	43.8	88	60-140	
trans-1,3-Dichloropropene	ug/L	50	43.9	88	60-140	
Trichloroethene	ug/L	50	42.7	85	60-140	
Trichlorofluoromethane	ug/L	50	38.7	77	60-140	
Vinyl chloride	ug/L	50	38.3	77	60-140	
1,2-Dichloroethane-d4 (S)	%			95	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507397

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078105 3078106

Parameter	Units	92506739004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	800	800	799	812	100	102	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	800	800	820	847	102	106	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	800	800	570	768	71	96	60-140	30	
1,1,2-Trichloroethane	ug/L	ND	800	800	736	775	92	97	60-140	5	
1,1-Dichloroethane	ug/L	ND	800	800	832	839	104	105	60-140	1	
1,1-Dichloroethene	ug/L	ND	800	800	878	884	110	111	60-140	1	
1,1-Dichloropropene	ug/L	ND	800	800	848	837	106	105	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	800	800	717	765	90	96	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	800	800	599	753	75	94	60-140	23	
1,2,4-Trichlorobenzene	ug/L	ND	800	800	706	735	88	92	60-140	4	
1,2,4-Trimethylbenzene	ug/L	125	800	800	837	862	89	92	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	800	800	790	826	99	103	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	ND	800	800	822	799	103	100	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	800	800	712	735	89	92	60-140	3	
1,2-Dichloroethane	ug/L	ND	800	800	733	728	92	91	60-140	1	
1,2-Dichloropropane	ug/L	ND	800	800	795	816	99	102	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	800	800	747	786	93	98	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	800	800	710	753	89	94	60-140	6	
1,3-Dichloropropane	ug/L	ND	800	800	851	806	106	101	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	800	800	748	765	94	96	60-140	2	
2,2-Dichloropropane	ug/L	ND	800	800	773	784	97	98	60-140	1	
2-Chlorotoluene	ug/L	ND	800	800	748	786	94	98	60-140	5	
4-Chlorotoluene	ug/L	ND	800	800	710	765	89	96	60-140	7	
Benzene	ug/L	3950	800	800	4740	4810	98	107	60-140	1	
Bromobenzene	ug/L	ND	800	800	724	792	90	99	60-140	9	
Bromochloromethane	ug/L	ND	800	800	783	812	98	101	60-140	4	
Bromodichloromethane	ug/L	ND	800	800	770	777	96	97	60-140	1	
Bromoform	ug/L	ND	800	800	622	728	78	91	60-140	16	
Bromomethane	ug/L	ND	800	800	528	762	66	95	60-140	36	R1
Carbon tetrachloride	ug/L	ND	800	800	817	831	102	104	60-140	2	
Chlorobenzene	ug/L	ND	800	800	765	775	96	97	60-140	1	
Chloroethane	ug/L	ND	800	800	826	838	103	105	60-140	1	
Chloroform	ug/L	ND	800	800	771	817	96	102	60-140	6	
Chloromethane	ug/L	ND	800	800	704	746	88	93	60-140	6	
cis-1,2-Dichloroethene	ug/L	ND	800	800	761	763	95	95	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	800	800	797	828	100	103	60-140	4	
Dibromochloromethane	ug/L	ND	800	800	880	831	110	104	60-140	6	
Dibromomethane	ug/L	ND	800	800	750	802	94	100	60-140	7	
Dichlorodifluoromethane	ug/L	ND	800	800	685	701	86	88	60-140	2	
Diisopropyl ether	ug/L	140	800	800	950	934	101	99	60-140	2	
Ethylbenzene	ug/L	660	800	800	1450	1460	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	800	800	816	774	102	97	60-140	5	
Isopropylbenzene (Cumene)	ug/L	51.5	800	800	692	858	80	101	60-140	21	
m&p-Xylene	ug/L	536	1600	1600	1850	2060	82	96	60-140	11	
Methyl-tert-butyl ether	ug/L	ND	800	800	838	832	105	104	60-140	1	
Methylene Chloride	ug/L	ND	800	800	794	806	99	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507397

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078105 3078106

Parameter	Units	92506739004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	800	800	709	748	89	94	60-140	5	
n-Propylbenzene	ug/L	127	800	800	853	911	91	98	60-140	7	
Naphthalene	ug/L	326	800	800	1030	1100	88	97	60-140	6	
o-Xylene	ug/L	90.7	800	800	720	878	79	98	60-140	20	
sec-Butylbenzene	ug/L	ND	800	800	749	804	94	100	60-140	7	
Styrene	ug/L	ND	800	800	611	767	76	96	60-140	23	
tert-Butylbenzene	ug/L	ND	800	800	649	679	81	85	60-140	5	
Tetrachloroethene	ug/L	ND	800	800	866	805	108	101	60-140	7	
Toluene	ug/L	84.8	800	800	836	833	94	94	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	800	800	850	858	106	107	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	800	800	777	796	97	99	60-140	2	
Trichloroethene	ug/L	ND	800	800	799	815	100	102	60-140	2	
Trichlorofluoromethane	ug/L	ND	800	800	836	847	105	106	60-140	1	
Vinyl chloride	ug/L	ND	800	800	763	790	95	99	60-140	4	
1,2-Dichloroethane-d4 (S)	%						104	100	70-130		
4-Bromofluorobenzene (S)	%						80	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92507397

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92507397

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92507397001	**13945_AC_RD**	MADEPV	1584076	MADEP VPH	1584076
92507397001	**13945_AC_RD**	EPA 3010A	582084	EPA 6010D	582114
92507397001	**13945_AC_RD**	SM 6200B	581979		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB USE ... umber or

WO# : 92507397

92507397

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To:
Copy To:	Site Collection Info/Address: 13945 AC RD
Customer Project Name/Number: 2020-LI-2448	State: NC County/City: Huntersville Time Zone Collected: [ ]PT [ ]MT [ ]CT [✓]ET
Phone: / Email:	Site/Facility ID #:
Collected By (print): Matt Fravoli	Purchase Order #: / Quote #:
Collected By (signature):	Turnaround Date Required: ASAP
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: [✓] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: / DW Location Code:

Immediately Packed on Ice: [✓] Yes [ ] No

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

Analysis: ____

Container ... 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 ____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 6200 B	MADEP VPH	Lead							Lab Sample # / Comments
13945 AC RD	DW	G	11/19 MF	1456				8	x	x	x							92507397 001

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: ____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: ____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: ziploc/bubble wrap

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

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

Lab Tracking #: 2560822

Samples received via: (FEDEX) UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 6210614

Cooler 1 Temp Upon Receipt: 3.5 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 3.4 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Apex	0830 11/20/20	Apex	11-20-20 0830
Apex	11-20-20 1035		11-20-20 1035

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

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.**

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

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

Project # **WO# : 92507397**

PM: AMB **Due Date: 12/01/20**

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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.: 92507398

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92507398

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92507398

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92507398001	**13926B_HC_RD**	MADEP VPH	ADM	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507398

Sample: 13926B_HC_RD **Lab ID: 92507398001** Collected: 11/19/20 13:45 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/30/20 16:03	11/30/20 16:03		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/30/20 16:03	11/30/20 16:03		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/30/20 16:03	11/30/20 16:03	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/30/20 16:03	11/30/20 16:03	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.4	%	70.0-130	1	11/30/20 16:03	11/30/20 16:03	615-59-8FID	
2,5-Dibromotoluene (PID)	87.8	%	70.0-130	1	11/30/20 16:03	11/30/20 16:03	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	11/21/20 03:19	11/23/20 22:42	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/20/20 18:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/20/20 18:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/20/20 18:28	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/20/20 18:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/20/20 18:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/20/20 18:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/20/20 18:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/20/20 18:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/20/20 18:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/20/20 18:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/20/20 18:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/20 18:28	75-00-3	
Chloroform	**7.0**	ug/L	0.50	1		11/20/20 18:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/20 18:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 18:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/20/20 18:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/20/20 18:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/20/20 18:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/20/20 18:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/20/20 18:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 18:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 18:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/20/20 18:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/20/20 18:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/20/20 18:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/20/20 18:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/20/20 18:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 18:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/20/20 18:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 18:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/20/20 18:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/20/20 18:28	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507398

Sample: 13926B_HC_RD **Lab ID: 92507398001** Collected: 11/19/20 13:45 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/20/20 18:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 18:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/20/20 18:28	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/20/20 18:28	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/20/20 18:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/20/20 18:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/20/20 18:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/20/20 18:28	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/20/20 18:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/20/20 18:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/20/20 18:28	103-65-1	
Styrene	ND	ug/L	0.50	1		11/20/20 18:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 18:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/20/20 18:28	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/20/20 18:28	127-18-4	
Toluene	ND	ug/L	0.50	1		11/20/20 18:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 18:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/20/20 18:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/20/20 18:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/20/20 18:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/20/20 18:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/20 18:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/20/20 18:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 18:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/20/20 18:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/20/20 18:28	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/20/20 18:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/20/20 18:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/20/20 18:28	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		11/20/20 18:28	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/20/20 18:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507398

QC Batch: 1584076
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92507398001

METHOD BLANK: R3599157-3 Matrix: Water
Associated Lab Samples: 92507398001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/30/20 11:04	
Aliphatic (C09-C12)	ug/L	ND	100	11/30/20 11:04	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/30/20 11:04	
Total VPH	ug/L	ND	100	11/30/20 11:04	
2,5-Dibromotoluene (FID)	%	84.3	70.0-130	11/30/20 11:04	
2,5-Dibromotoluene (PID)	%	78.8	70.0-130	11/30/20 11:04	

LABORATORY CONTROL SAMPLE & LCSD: R3599157-1 R3599157-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1000	988	83.3	82.3	70.0-130	1.21	25	
Aliphatic (C09-C12)	ug/L	1400	1420	1400	101	100	70.0-130	1.42	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	202	198	101	99.0	70.0-130	2.00	25	
Total VPH	ug/L	2800	2620	2590	93.6	92.5	70.0-130	1.15	25	
2,5-Dibromotoluene (FID)	%				95.0	96.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.1	92.0	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3599157-4 R3599157-5

Parameter	Units	L1288981-03 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aliphatic (C05-C08)	ug/L	ND	1200	1200	992	1180	82.7	98.3	70.0-130	17.3	
Aliphatic (C09-C12)	ug/L	ND	1400	1400	1420	1690	101	121	70.0-130	17.4	
Aromatic (C09-C10),Unadjusted	ug/L	ND	200	200	197	231	98.5	116	70.0-130	15.9	
Total VPH	ug/L	ND	2800	2800	2610	3100	93.2	111	70.0-130	17.2	
2,5-Dibromotoluene (FID)	%						95.9	97.8	70.0-130		
2,5-Dibromotoluene (PID)	%						90.2	94.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507398

QC Batch: 582084
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92507398001

METHOD BLANK: 3078716 Matrix: Water
Associated Lab Samples: 92507398001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/23/20 21:21	

LABORATORY CONTROL SAMPLE: 3078717

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078718 3078719

Parameter	Units	92506490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	253	257	101	102	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507398

QC Batch: 581979
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507398001

METHOD BLANK: 3078103 Matrix: Water
Associated Lab Samples: 92507398001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
1,1-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/20/20 14:37	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/20/20 14:37	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/20/20 14:37	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichloroethane	ug/L	ND	0.50	11/20/20 14:37	
1,2-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
1,3-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
2,2-Dichloropropane	ug/L	ND	0.50	11/20/20 14:37	
2-Chlorotoluene	ug/L	ND	0.50	11/20/20 14:37	
4-Chlorotoluene	ug/L	ND	0.50	11/20/20 14:37	
Benzene	ug/L	ND	0.50	11/20/20 14:37	
Bromobenzene	ug/L	ND	0.50	11/20/20 14:37	
Bromochloromethane	ug/L	ND	0.50	11/20/20 14:37	
Bromodichloromethane	ug/L	ND	0.50	11/20/20 14:37	
Bromoform	ug/L	ND	0.50	11/20/20 14:37	
Bromomethane	ug/L	ND	5.0	11/20/20 14:37	
Carbon tetrachloride	ug/L	ND	0.50	11/20/20 14:37	
Chlorobenzene	ug/L	ND	0.50	11/20/20 14:37	
Chloroethane	ug/L	ND	1.0	11/20/20 14:37	
Chloroform	ug/L	ND	0.50	11/20/20 14:37	
Chloromethane	ug/L	ND	1.0	11/20/20 14:37	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
Dibromochloromethane	ug/L	ND	0.50	11/20/20 14:37	
Dibromomethane	ug/L	ND	0.50	11/20/20 14:37	
Dichlorodifluoromethane	ug/L	ND	0.50	11/20/20 14:37	
Diisopropyl ether	ug/L	ND	0.50	11/20/20 14:37	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507398

METHOD BLANK: 3078103 Matrix: Water
Associated Lab Samples: 92507398001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/20/20 14:37	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/20/20 14:37	
m&p-Xylene	ug/L	ND	1.0	11/20/20 14:37	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/20/20 14:37	
Methylene Chloride	ug/L	ND	2.0	11/20/20 14:37	
n-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
n-Propylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Naphthalene	ug/L	ND	2.0	11/20/20 14:37	
o-Xylene	ug/L	ND	0.50	11/20/20 14:37	
sec-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Styrene	ug/L	ND	0.50	11/20/20 14:37	
tert-Butylbenzene	ug/L	ND	0.50	11/20/20 14:37	
Tetrachloroethene	ug/L	ND	0.50	11/20/20 14:37	
Toluene	ug/L	ND	0.50	11/20/20 14:37	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/20/20 14:37	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/20/20 14:37	
Trichloroethene	ug/L	ND	0.50	11/20/20 14:37	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/20 14:37	
Vinyl chloride	ug/L	ND	1.0	11/20/20 14:37	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/20/20 14:37	
4-Bromofluorobenzene (S)	%	97	70-130	11/20/20 14:37	
Toluene-d8 (S)	%	102	70-130	11/20/20 14:37	

LABORATORY CONTROL SAMPLE: 3078104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.8	90	60-140	
1,1,1-Trichloroethane	ug/L	50	43.6	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	43.2	86	60-140	
1,1,2-Trichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethane	ug/L	50	42.7	85	60-140	
1,1-Dichloroethene	ug/L	50	43.1	86	60-140	
1,1-Dichloropropene	ug/L	50	43.3	87	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.0	94	60-140	
1,2,3-Trichloropropane	ug/L	50	41.6	83	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.3	93	60-140	
1,2,4-Trimethylbenzene	ug/L	50	42.1	84	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	45.0	90	60-140	
1,2-Dichlorobenzene	ug/L	50	42.9	86	60-140	
1,2-Dichloroethane	ug/L	50	39.1	78	60-140	
1,2-Dichloropropane	ug/L	50	44.8	90	60-140	
1,3,5-Trimethylbenzene	ug/L	50	42.7	85	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507398

LABORATORY CONTROL SAMPLE: 3078104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	44.1	88	60-140	
1,3-Dichloropropane	ug/L	50	45.0	90	60-140	
1,4-Dichlorobenzene	ug/L	50	44.2	88	60-140	
2,2-Dichloropropane	ug/L	50	42.8	86	60-140	
2-Chlorotoluene	ug/L	50	43.7	87	60-140	
4-Chlorotoluene	ug/L	50	42.6	85	60-140	
Benzene	ug/L	50	43.1	86	60-140	
Bromobenzene	ug/L	50	43.8	88	60-140	
Bromochloromethane	ug/L	50	43.0	86	60-140	
Bromodichloromethane	ug/L	50	43.1	86	60-140	
Bromoform	ug/L	50	43.2	86	60-140	
Bromomethane	ug/L	50	41.7	83	60-140	
Carbon tetrachloride	ug/L	50	42.3	85	60-140	
Chlorobenzene	ug/L	50	42.8	86	60-140	
Chloroethane	ug/L	50	39.3	79	60-140	
Chloroform	ug/L	50	43.6	87	60-140	
Chloromethane	ug/L	50	38.9	78	60-140	
cis-1,2-Dichloroethene	ug/L	50	40.8	82	60-140	
cis-1,3-Dichloropropene	ug/L	50	45.4	91	60-140	
Dibromochloromethane	ug/L	50	47.6	95	60-140	
Dibromomethane	ug/L	50	43.0	86	60-140	
Dichlorodifluoromethane	ug/L	50	37.3	75	60-140	
Diisopropyl ether	ug/L	50	41.2	82	60-140	
Ethylbenzene	ug/L	50	42.4	85	60-140	
Hexachloro-1,3-butadiene	ug/L	50	44.6	89	60-140	
Isopropylbenzene (Cumene)	ug/L	50	43.5	87	60-140	
m&p-Xylene	ug/L	100	85.4	85	60-140	
Methyl-tert-butyl ether	ug/L	50	42.8	86	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	43.1	86	60-140	
n-Propylbenzene	ug/L	50	42.5	85	60-140	
Naphthalene	ug/L	50	48.3	97	60-140	
o-Xylene	ug/L	50	43.5	87	60-140	
sec-Butylbenzene	ug/L	50	42.8	86	60-140	
Styrene	ug/L	50	44.1	88	60-140	
tert-Butylbenzene	ug/L	50	37.1	74	60-140	
Tetrachloroethene	ug/L	50	42.9	86	60-140	
Toluene	ug/L	50	41.8	84	60-140	
trans-1,2-Dichloroethene	ug/L	50	43.8	88	60-140	
trans-1,3-Dichloropropene	ug/L	50	43.9	88	60-140	
Trichloroethene	ug/L	50	42.7	85	60-140	
Trichlorofluoromethane	ug/L	50	38.7	77	60-140	
Vinyl chloride	ug/L	50	38.3	77	60-140	
1,2-Dichloroethane-d4 (S)	%			95	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507398

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078105 3078106

Parameter	Units	92506739004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	800	800	799	812	100	102	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	800	800	820	847	102	106	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	800	800	570	768	71	96	60-140	30	
1,1,2-Trichloroethane	ug/L	ND	800	800	736	775	92	97	60-140	5	
1,1-Dichloroethane	ug/L	ND	800	800	832	839	104	105	60-140	1	
1,1-Dichloroethene	ug/L	ND	800	800	878	884	110	111	60-140	1	
1,1-Dichloropropene	ug/L	ND	800	800	848	837	106	105	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	800	800	717	765	90	96	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	800	800	599	753	75	94	60-140	23	
1,2,4-Trichlorobenzene	ug/L	ND	800	800	706	735	88	92	60-140	4	
1,2,4-Trimethylbenzene	ug/L	125	800	800	837	862	89	92	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	800	800	790	826	99	103	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	ND	800	800	822	799	103	100	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	800	800	712	735	89	92	60-140	3	
1,2-Dichloroethane	ug/L	ND	800	800	733	728	92	91	60-140	1	
1,2-Dichloropropane	ug/L	ND	800	800	795	816	99	102	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	800	800	747	786	93	98	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	800	800	710	753	89	94	60-140	6	
1,3-Dichloropropane	ug/L	ND	800	800	851	806	106	101	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	800	800	748	765	94	96	60-140	2	
2,2-Dichloropropane	ug/L	ND	800	800	773	784	97	98	60-140	1	
2-Chlorotoluene	ug/L	ND	800	800	748	786	94	98	60-140	5	
4-Chlorotoluene	ug/L	ND	800	800	710	765	89	96	60-140	7	
Benzene	ug/L	3950	800	800	4740	4810	98	107	60-140	1	
Bromobenzene	ug/L	ND	800	800	724	792	90	99	60-140	9	
Bromochloromethane	ug/L	ND	800	800	783	812	98	101	60-140	4	
Bromodichloromethane	ug/L	ND	800	800	770	777	96	97	60-140	1	
Bromoform	ug/L	ND	800	800	622	728	78	91	60-140	16	
Bromomethane	ug/L	ND	800	800	528	762	66	95	60-140	36	R1
Carbon tetrachloride	ug/L	ND	800	800	817	831	102	104	60-140	2	
Chlorobenzene	ug/L	ND	800	800	765	775	96	97	60-140	1	
Chloroethane	ug/L	ND	800	800	826	838	103	105	60-140	1	
Chloroform	ug/L	ND	800	800	771	817	96	102	60-140	6	
Chloromethane	ug/L	ND	800	800	704	746	88	93	60-140	6	
cis-1,2-Dichloroethene	ug/L	ND	800	800	761	763	95	95	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	800	800	797	828	100	103	60-140	4	
Dibromochloromethane	ug/L	ND	800	800	880	831	110	104	60-140	6	
Dibromomethane	ug/L	ND	800	800	750	802	94	100	60-140	7	
Dichlorodifluoromethane	ug/L	ND	800	800	685	701	86	88	60-140	2	
Diisopropyl ether	ug/L	140	800	800	950	934	101	99	60-140	2	
Ethylbenzene	ug/L	660	800	800	1450	1460	98	99	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	800	800	816	774	102	97	60-140	5	
Isopropylbenzene (Cumene)	ug/L	51.5	800	800	692	858	80	101	60-140	21	
m&p-Xylene	ug/L	536	1600	1600	1850	2060	82	96	60-140	11	
Methyl-tert-butyl ether	ug/L	ND	800	800	838	832	105	104	60-140	1	
Methylene Chloride	ug/L	ND	800	800	794	806	99	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507398

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078105 3078106

Parameter	Units	92506739004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	800	800	709	748	89	94	60-140	5	
n-Propylbenzene	ug/L	127	800	800	853	911	91	98	60-140	7	
Naphthalene	ug/L	326	800	800	1030	1100	88	97	60-140	6	
o-Xylene	ug/L	90.7	800	800	720	878	79	98	60-140	20	
sec-Butylbenzene	ug/L	ND	800	800	749	804	94	100	60-140	7	
Styrene	ug/L	ND	800	800	611	767	76	96	60-140	23	
tert-Butylbenzene	ug/L	ND	800	800	649	679	81	85	60-140	5	
Tetrachloroethene	ug/L	ND	800	800	866	805	108	101	60-140	7	
Toluene	ug/L	84.8	800	800	836	833	94	94	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	800	800	850	858	106	107	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	800	800	777	796	97	99	60-140	2	
Trichloroethene	ug/L	ND	800	800	799	815	100	102	60-140	2	
Trichlorofluoromethane	ug/L	ND	800	800	836	847	105	106	60-140	1	
Vinyl chloride	ug/L	ND	800	800	763	790	95	99	60-140	4	
1,2-Dichloroethane-d4 (S)	%						104	100	70-130		
4-Bromofluorobenzene (S)	%						80	99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92507398

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92507398

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92507398001	**13926B_HC_RD**	MADEPV	1584076	MADEP VPH	1584076
92507398001	**13926B_HC_RD**	EPA 3010A	582084	EPA 6010D	582114
92507398001	**13926B_HC_RD**	SM 6200B	581979		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB US **WO# : 92507398**

92507398

Number or

Company: Apex Companies

Billing Information:

Address:

Report To: Andrew Street

Email To:

Copy To:

Site Collection Info/Address: 13926 B HC RD

Customer Project Name/Number: 2020-CI-2448

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

Phone:
Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Matt Fraioli

Purchase Order #:
Quote #:

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 (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)

** 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: 6200B | MADEP VPH | Lead

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	6200B	MADEP VPH	Lead	Lab Sample # / Comments
13926B HC RD	DW	G	11/19 MF	1345					X	X	X	92507398 001

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)
Sample pH Acceptable	(Y)	N	NA
Sulfide Present	Y	N	(NA)

Cl Strips: _____
pH Strips: _____
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: ziploc/bubble wrap

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

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

Lab Tracking #: 2560821

Samples received via: (FEDEX) UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 62T064
Cooler 1 Temp Upon Receipt: 3.5 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 3.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Apex	0830 11/20/20	Apex	11-20-20/0830
Apex	11-20-20/0835	MJC Pace HV	11-20-20 10:35

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

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.**

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

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

Project # **WO#: 92507398**

PM: AMB **Due Date: 12/01/20**

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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.: 92507400

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92507400

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92507400

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92507400001	**13835_AC_RD**	MADEP VPH	ADM	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507400

Sample: 13835_AC_RD **Lab ID: 92507400001** Collected: 11/19/20 15:45 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/30/20 12:10	11/30/20 12:10		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/30/20 12:10	11/30/20 12:10		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/30/20 12:10	11/30/20 12:10	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/30/20 12:10	11/30/20 12:10	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.7	%	70.0-130	1	11/30/20 12:10	11/30/20 12:10	615-59-8FID	
2,5-Dibromotoluene (PID)	86.5	%	70.0-130	1	11/30/20 12:10	11/30/20 12:10	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	11/21/20 03:19	11/23/20 22:45	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/21/20 04:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/21/20 04:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/21/20 04:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/21/20 04:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/21/20 04:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/21/20 04:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/21/20 04:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/21/20 04:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/21/20 04:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/21/20 04:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/21/20 04:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/21/20 04:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/21/20 04:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/21/20 04:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/21/20 04:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/21/20 04:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/21/20 04:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/21/20 04:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/21/20 04:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/21/20 04:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/21/20 04:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/21/20 04:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/21/20 04:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/21/20 04:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/21/20 04:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/21/20 04:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/21/20 04:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/21/20 04:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/21/20 04:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/21/20 04:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/21/20 04:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/21/20 04:37	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507400

Sample: 13835_AC_RD **Lab ID: 92507400001** Collected: 11/19/20 15:45 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/21/20 04:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/21/20 04:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/21/20 04:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/21/20 04:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/21/20 04:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/21/20 04:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/21/20 04:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/21/20 04:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/21/20 04:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/21/20 04:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/21/20 04:37	103-65-1	
Styrene	ND	ug/L	0.50	1		11/21/20 04:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/21/20 04:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/21/20 04:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/21/20 04:37	127-18-4	
Toluene	ND	ug/L	0.50	1		11/21/20 04:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/21/20 04:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/21/20 04:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/21/20 04:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/21/20 04:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/21/20 04:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/21/20 04:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/21/20 04:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/21/20 04:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/21/20 04:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/21/20 04:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/21/20 04:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/21/20 04:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		11/21/20 04:37	17060-07-0	
4-Bromofluorobenzene (S)	76	%	70-130	1		11/21/20 04:37	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		11/21/20 04:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507400

QC Batch: 1584076
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92507400001

METHOD BLANK: R3599157-3 Matrix: Water
Associated Lab Samples: 92507400001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/30/20 11:04	
Aliphatic (C09-C12)	ug/L	ND	100	11/30/20 11:04	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/30/20 11:04	
Total VPH	ug/L	ND	100	11/30/20 11:04	
2,5-Dibromotoluene (FID)	%	84.3	70.0-130	11/30/20 11:04	
2,5-Dibromotoluene (PID)	%	78.8	70.0-130	11/30/20 11:04	

LABORATORY CONTROL SAMPLE & LCSD: R3599157-1 R3599157-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1000	988	83.3	82.3	70.0-130	1.21	25	
Aliphatic (C09-C12)	ug/L	1400	1420	1400	101	100	70.0-130	1.42	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	202	198	101	99.0	70.0-130	2.00	25	
Total VPH	ug/L	2800	2620	2590	93.6	92.5	70.0-130	1.15	25	
2,5-Dibromotoluene (FID)	%				95.0	96.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.1	92.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507400

QC Batch: 582084
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92507400001

METHOD BLANK: 3078716 Matrix: Water
Associated Lab Samples: 92507400001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/23/20 21:21	

LABORATORY CONTROL SAMPLE: 3078717

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078718 3078719

Parameter	Units	92506490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	253	257	101	102	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507400

QC Batch: 582014
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507400001

METHOD BLANK: 3078392 Matrix: Water
Associated Lab Samples: 92507400001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1-Dichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1-Dichloroethene	ug/L	ND	0.50	11/21/20 01:20	
1,1-Dichloropropene	ug/L	ND	0.50	11/21/20 01:20	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/21/20 01:20	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/21/20 01:20	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/21/20 01:20	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/21/20 01:20	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dichloropropane	ug/L	ND	0.50	11/21/20 01:20	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/21/20 01:20	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
1,3-Dichloropropane	ug/L	ND	0.50	11/21/20 01:20	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
2,2-Dichloropropane	ug/L	ND	0.50	11/21/20 01:20	
2-Chlorotoluene	ug/L	ND	0.50	11/21/20 01:20	
4-Chlorotoluene	ug/L	ND	0.50	11/21/20 01:20	
Benzene	ug/L	ND	0.50	11/21/20 01:20	
Bromobenzene	ug/L	ND	0.50	11/21/20 01:20	
Bromochloromethane	ug/L	ND	0.50	11/21/20 01:20	
Bromodichloromethane	ug/L	ND	0.50	11/21/20 01:20	
Bromoform	ug/L	ND	0.50	11/21/20 01:20	
Bromomethane	ug/L	ND	5.0	11/21/20 01:20	
Carbon tetrachloride	ug/L	ND	0.50	11/21/20 01:20	
Chlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
Chloroethane	ug/L	ND	1.0	11/21/20 01:20	
Chloroform	ug/L	ND	0.50	11/21/20 01:20	
Chloromethane	ug/L	ND	1.0	11/21/20 01:20	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/21/20 01:20	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/21/20 01:20	
Dibromochloromethane	ug/L	ND	0.50	11/21/20 01:20	
Dibromomethane	ug/L	ND	0.50	11/21/20 01:20	
Dichlorodifluoromethane	ug/L	ND	0.50	11/21/20 01:20	
Diisopropyl ether	ug/L	ND	0.50	11/21/20 01:20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507400

METHOD BLANK: 3078392 Matrix: Water
Associated Lab Samples: 92507400001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/21/20 01:20	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/21/20 01:20	
m&p-Xylene	ug/L	ND	1.0	11/21/20 01:20	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/21/20 01:20	
Methylene Chloride	ug/L	ND	2.0	11/21/20 01:20	
n-Butylbenzene	ug/L	ND	0.50	11/21/20 01:20	
n-Propylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Naphthalene	ug/L	ND	2.0	11/21/20 01:20	
o-Xylene	ug/L	ND	0.50	11/21/20 01:20	
sec-Butylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Styrene	ug/L	ND	0.50	11/21/20 01:20	
tert-Butylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Tetrachloroethene	ug/L	ND	0.50	11/21/20 01:20	
Toluene	ug/L	ND	0.50	11/21/20 01:20	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/21/20 01:20	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/21/20 01:20	
Trichloroethene	ug/L	ND	0.50	11/21/20 01:20	
Trichlorofluoromethane	ug/L	ND	1.0	11/21/20 01:20	
Vinyl chloride	ug/L	ND	1.0	11/21/20 01:20	
1,2-Dichloroethane-d4 (S)	%	103	70-130	11/21/20 01:20	
4-Bromofluorobenzene (S)	%	96	70-130	11/21/20 01:20	
Toluene-d8 (S)	%	105	70-130	11/21/20 01:20	

LABORATORY CONTROL SAMPLE: 3078393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.5	97	60-140	
1,1,1-Trichloroethane	ug/L	50	47.4	95	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.8	92	60-140	
1,1,2-Trichloroethane	ug/L	50	44.8	90	60-140	
1,1-Dichloroethane	ug/L	50	48.7	97	60-140	
1,1-Dichloroethene	ug/L	50	48.0	96	60-140	
1,1-Dichloropropene	ug/L	50	47.8	96	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.8	98	60-140	
1,2,3-Trichloropropane	ug/L	50	44.4	89	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	60-140	
1,2,4-Trimethylbenzene	ug/L	50	44.9	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.0	104	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.1	98	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	42.5	85	60-140	
1,2-Dichloropropane	ug/L	50	46.4	93	60-140	
1,3,5-Trimethylbenzene	ug/L	50	46.3	93	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507400

LABORATORY CONTROL SAMPLE: 3078393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.7	95	60-140	
1,3-Dichloropropane	ug/L	50	49.4	99	60-140	
1,4-Dichlorobenzene	ug/L	50	47.6	95	60-140	
2,2-Dichloropropane	ug/L	50	46.2	92	60-140	
2-Chlorotoluene	ug/L	50	47.3	95	60-140	
4-Chlorotoluene	ug/L	50	46.0	92	60-140	
Benzene	ug/L	50	47.9	96	60-140	
Bromobenzene	ug/L	50	47.2	94	60-140	
Bromochloromethane	ug/L	50	48.1	96	60-140	
Bromodichloromethane	ug/L	50	45.8	92	60-140	
Bromoform	ug/L	50	45.8	92	60-140	
Bromomethane	ug/L	50	54.0	108	60-140	
Carbon tetrachloride	ug/L	50	46.9	94	60-140	
Chlorobenzene	ug/L	50	46.5	93	60-140	
Chloroethane	ug/L	50	44.6	89	60-140	
Chloroform	ug/L	50	47.1	94	60-140	
Chloromethane	ug/L	50	40.4	81	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.5	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	60-140	
Dibromochloromethane	ug/L	50	52.3	105	60-140	
Dibromomethane	ug/L	50	45.3	91	60-140	
Dichlorodifluoromethane	ug/L	50	36.5	73	60-140	
Diisopropyl ether	ug/L	50	45.9	92	60-140	
Ethylbenzene	ug/L	50	46.1	92	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.3	95	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.2	94	60-140	
m&p-Xylene	ug/L	100	92.7	93	60-140	
Methyl-tert-butyl ether	ug/L	50	46.4	93	60-140	
Methylene Chloride	ug/L	50	44.1	88	60-140	
n-Butylbenzene	ug/L	50	46.6	93	60-140	
n-Propylbenzene	ug/L	50	46.6	93	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	46.5	93	60-140	
Styrene	ug/L	50	47.3	95	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	46.6	93	60-140	
Toluene	ug/L	50	43.6	87	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.9	94	60-140	
Trichloroethene	ug/L	50	46.7	93	60-140	
Trichlorofluoromethane	ug/L	50	43.1	86	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			93	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507400

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078394 3078395

Parameter	Units	92507473001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.6	21.8	103	109	60-140	6	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	21.7	104	108	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.1	20.6	100	103	60-140	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.0	21.2	100	106	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	21.0	20.8	105	104	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	21.1	22.0	105	110	60-140	5	
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.2	108	111	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.5	21.1	103	106	60-140	3	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.6	20.0	98	100	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.5	20.4	97	102	60-140	5	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.4	19.4	97	97	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.8	22.7	109	113	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.8	21.3	104	107	60-140	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	19.8	97	99	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	18.5	19.1	93	95	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	21.0	22.1	105	110	60-140	5	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.4	20.0	97	100	60-140	3	
1,3-Dichloropropane	ug/L	ND	20	20	21.8	21.7	109	109	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.1	20.4	100	102	60-140	1	
2,2-Dichloropropane	ug/L	ND	20	20	21.4	22.2	107	111	60-140	4	
2-Chlorotoluene	ug/L	ND	20	20	20.5	20.6	102	103	60-140	1	
4-Chlorotoluene	ug/L	ND	20	20	20.0	20.0	100	100	60-140	0	
Benzene	ug/L	ND	20	20	22.0	21.6	110	108	60-140	2	
Bromobenzene	ug/L	ND	20	20	20.4	20.6	102	103	60-140	1	
Bromochloromethane	ug/L	ND	20	20	20.7	21.2	104	106	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.3	21.9	102	109	60-140	8	
Bromoform	ug/L	ND	20	20	19.7	19.9	98	99	60-140	1	
Bromomethane	ug/L	ND	20	20	23.7	25.5	119	127	60-140	7	
Carbon tetrachloride	ug/L	ND	20	20	21.4	23.1	107	116	60-140	8	
Chlorobenzene	ug/L	ND	20	20	20.4	20.9	102	105	60-140	3	
Chloroethane	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4	
Chloroform	ug/L	4.2	20	20	24.6	26.2	102	110	60-140	6	
Chloromethane	ug/L	ND	20	20	19.3	18.5	96	93	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.9	20.1	100	101	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.8	22.3	109	111	60-140	2	
Dibromochloromethane	ug/L	ND	20	20	21.8	23.0	109	115	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.5	22.5	102	113	60-140	10	
Dichlorodifluoromethane	ug/L	ND	20	20	16.7	17.4	83	87	60-140	4	
Diisopropyl ether	ug/L	ND	20	20	19.8	19.6	99	98	60-140	1	
Ethylbenzene	ug/L	ND	20	20	20.5	21.0	102	105	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.8	21.3	104	106	60-140	2	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.7	21.5	104	107	60-140	4	
m&p-Xylene	ug/L	ND	40	40	40.7	41.8	102	104	60-140	3	
Methyl-tert-butyl ether	ug/L	11.3	20	20	31.1	31.3	99	100	60-140	1	
Methylene Chloride	ug/L	ND	20	20	19.2	18.9	96	94	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507400

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078394 3078395

Parameter	Units	92507473001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.0	20.5	100	102	60-140	2	
n-Propylbenzene	ug/L	ND	20	20	20.7	20.5	103	103	60-140	1	
Naphthalene	ug/L	ND	20	20	20.1	20.9	100	105	60-140	4	
o-Xylene	ug/L	ND	20	20	20.1	21.2	101	106	60-140	5	
sec-Butylbenzene	ug/L	ND	20	20	20.8	20.5	104	103	60-140	2	
Styrene	ug/L	ND	20	20	15.8	17.6	79	88	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	17.8	18.0	89	90	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	20.9	21.3	105	107	60-140	2	
Toluene	ug/L	ND	20	20	20.2	21.1	101	105	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.6	22.4	103	112	60-140	8	
Trichloroethene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3	
Trichlorofluoromethane	ug/L	ND	20	20	20.6	22.4	103	112	60-140	8	
Vinyl chloride	ug/L	ND	20	20	19.9	19.9	100	99	60-140	0	
1,2-Dichloroethane-d4 (S)	%						96	100	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92507400

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92507400

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92507400001	**13835_AC_RD**	MADEPV	1584076	MADEP VPH	1584076
92507400001	**13835_AC_RD**	EPA 3010A	582084	EPA 6010D	582114
92507400001	**13835_AC_RD**	SM 6200B	582014		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ... mber or

WO# : 92507400

92507400

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 2020-LI-2448	State: NC / County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: / Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Matt Fraioli	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: ASAP / 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:

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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 6200 B	MADEP VPH	Lead	Lab Profile/Line:
13835 AC RD	DW	G	11/19 MF	1545				8	X	X	X	92507400 001

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
Sample pH Acceptable	(Y)	N	NA
Sulfide Present	Y	N	(NA)

Cl Strips: _____
pH Strips: _____
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: ziploc/bubble wrap

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

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

Lab Tracking #: 2560819

Samples received via: (FEDEX) UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92TD64
Cooler 1 Temp Upon Receipt: 3.5 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 3.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Apex	11/20/20 0830	Apex	11-20-20/0830
Apex	11-20-20/1035	MD LaRue HW	11-20-20 10:35

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

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.**

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

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

Project # **WO# : 92507400**

PM: AMB Due Date: 12/01/20

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)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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.: 92507401

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92507401

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92507401

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92507401001	**13926A_HC_RD**	MADEP VPH	ADM	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507401

Sample: 13926A_HC_RD **Lab ID: 92507401001** Collected: 11/19/20 16:55 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/30/20 13:16	11/30/20 13:16		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/30/20 13:16	11/30/20 13:16		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/30/20 13:16	11/30/20 13:16	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/30/20 13:16	11/30/20 13:16	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.2	%	70.0-130	1	11/30/20 13:16	11/30/20 13:16	615-59-8FID	
2,5-Dibromotoluene (PID)	87.3	%	70.0-130	1	11/30/20 13:16	11/30/20 13:16	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**5.8**	ug/L	5.0	1	11/21/20 03:19	11/23/20 23:02	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/21/20 04:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/21/20 04:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/21/20 04:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/21/20 04:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/21/20 04:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/21/20 04:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/21/20 04:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/21/20 04:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/21/20 04:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/21/20 04:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/21/20 04:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/21/20 04:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/21/20 04:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/21/20 04:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/21/20 04:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/21/20 04:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/21/20 04:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/21/20 04:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/21/20 04:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/21/20 04:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/21/20 04:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/21/20 04:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/21/20 04:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/21/20 04:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/21/20 04:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/21/20 04:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/21/20 04:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/21/20 04:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/21/20 04:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/21/20 04:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/21/20 04:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/21/20 04:55	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507401

Sample: 13926A_HC_RD **Lab ID: 92507401001** Collected: 11/19/20 16:55 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/21/20 04:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/21/20 04:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/21/20 04:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/21/20 04:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/21/20 04:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/21/20 04:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/21/20 04:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/21/20 04:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/21/20 04:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/21/20 04:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/21/20 04:55	103-65-1	
Styrene	ND	ug/L	0.50	1		11/21/20 04:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/21/20 04:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/21/20 04:55	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/21/20 04:55	127-18-4	
Toluene	ND	ug/L	0.50	1		11/21/20 04:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/21/20 04:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/21/20 04:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/21/20 04:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/21/20 04:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/21/20 04:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/21/20 04:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/21/20 04:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/21/20 04:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/21/20 04:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/21/20 04:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/21/20 04:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/21/20 04:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		11/21/20 04:55	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		11/21/20 04:55	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/21/20 04:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507401

QC Batch: 1584076
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92507401001

METHOD BLANK: R3599157-3 Matrix: Water
Associated Lab Samples: 92507401001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/30/20 11:04	
Aliphatic (C09-C12)	ug/L	ND	100	11/30/20 11:04	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/30/20 11:04	
Total VPH	ug/L	ND	100	11/30/20 11:04	
2,5-Dibromotoluene (FID)	%	84.3	70.0-130	11/30/20 11:04	
2,5-Dibromotoluene (PID)	%	78.8	70.0-130	11/30/20 11:04	

LABORATORY CONTROL SAMPLE & LCSD: R3599157-1 R3599157-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1000	988	83.3	82.3	70.0-130	1.21	25	
Aliphatic (C09-C12)	ug/L	1400	1420	1400	101	100	70.0-130	1.42	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	202	198	101	99.0	70.0-130	2.00	25	
Total VPH	ug/L	2800	2620	2590	93.6	92.5	70.0-130	1.15	25	
2,5-Dibromotoluene (FID)	%				95.0	96.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.1	92.0	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3599157-4 R3599157-5

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aliphatic (C05-C08)	ug/L		1200	1200	992	1180	82.7	98.3	70.0-130	17.3	
Aliphatic (C09-C12)	ug/L		1400	1400	1420	1690	101	121	70.0-130	17.4	
Aromatic (C09-C10),Unadjusted	ug/L		200	200	197	231	98.5	116	70.0-130	15.9	
Total VPH	ug/L		2800	2800	2610	3100	93.2	111	70.0-130	17.2	
2,5-Dibromotoluene (FID)	%						95.9	97.8	70.0-130		
2,5-Dibromotoluene (PID)	%						90.2	94.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507401

QC Batch: 582084
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92507401001

METHOD BLANK: 3078716 Matrix: Water
Associated Lab Samples: 92507401001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/23/20 21:21	

LABORATORY CONTROL SAMPLE: 3078717

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078718 3078719

Parameter	Units	92506490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	253	257	101	102	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507401

QC Batch: 582014
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507401001

METHOD BLANK: 3078392 Matrix: Water
Associated Lab Samples: 92507401001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1-Dichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1-Dichloroethene	ug/L	ND	0.50	11/21/20 01:20	
1,1-Dichloropropene	ug/L	ND	0.50	11/21/20 01:20	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/21/20 01:20	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/21/20 01:20	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/21/20 01:20	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/21/20 01:20	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dichloropropane	ug/L	ND	0.50	11/21/20 01:20	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/21/20 01:20	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
1,3-Dichloropropane	ug/L	ND	0.50	11/21/20 01:20	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
2,2-Dichloropropane	ug/L	ND	0.50	11/21/20 01:20	
2-Chlorotoluene	ug/L	ND	0.50	11/21/20 01:20	
4-Chlorotoluene	ug/L	ND	0.50	11/21/20 01:20	
Benzene	ug/L	ND	0.50	11/21/20 01:20	
Bromobenzene	ug/L	ND	0.50	11/21/20 01:20	
Bromochloromethane	ug/L	ND	0.50	11/21/20 01:20	
Bromodichloromethane	ug/L	ND	0.50	11/21/20 01:20	
Bromoform	ug/L	ND	0.50	11/21/20 01:20	
Bromomethane	ug/L	ND	5.0	11/21/20 01:20	
Carbon tetrachloride	ug/L	ND	0.50	11/21/20 01:20	
Chlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
Chloroethane	ug/L	ND	1.0	11/21/20 01:20	
Chloroform	ug/L	ND	0.50	11/21/20 01:20	
Chloromethane	ug/L	ND	1.0	11/21/20 01:20	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/21/20 01:20	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/21/20 01:20	
Dibromochloromethane	ug/L	ND	0.50	11/21/20 01:20	
Dibromomethane	ug/L	ND	0.50	11/21/20 01:20	
Dichlorodifluoromethane	ug/L	ND	0.50	11/21/20 01:20	
Diisopropyl ether	ug/L	ND	0.50	11/21/20 01:20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507401

METHOD BLANK: 3078392 Matrix: Water
Associated Lab Samples: 92507401001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/21/20 01:20	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/21/20 01:20	
m&p-Xylene	ug/L	ND	1.0	11/21/20 01:20	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/21/20 01:20	
Methylene Chloride	ug/L	ND	2.0	11/21/20 01:20	
n-Butylbenzene	ug/L	ND	0.50	11/21/20 01:20	
n-Propylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Naphthalene	ug/L	ND	2.0	11/21/20 01:20	
o-Xylene	ug/L	ND	0.50	11/21/20 01:20	
sec-Butylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Styrene	ug/L	ND	0.50	11/21/20 01:20	
tert-Butylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Tetrachloroethene	ug/L	ND	0.50	11/21/20 01:20	
Toluene	ug/L	ND	0.50	11/21/20 01:20	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/21/20 01:20	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/21/20 01:20	
Trichloroethene	ug/L	ND	0.50	11/21/20 01:20	
Trichlorofluoromethane	ug/L	ND	1.0	11/21/20 01:20	
Vinyl chloride	ug/L	ND	1.0	11/21/20 01:20	
1,2-Dichloroethane-d4 (S)	%	103	70-130	11/21/20 01:20	
4-Bromofluorobenzene (S)	%	96	70-130	11/21/20 01:20	
Toluene-d8 (S)	%	105	70-130	11/21/20 01:20	

LABORATORY CONTROL SAMPLE: 3078393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.5	97	60-140	
1,1,1-Trichloroethane	ug/L	50	47.4	95	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.8	92	60-140	
1,1,2-Trichloroethane	ug/L	50	44.8	90	60-140	
1,1-Dichloroethane	ug/L	50	48.7	97	60-140	
1,1-Dichloroethene	ug/L	50	48.0	96	60-140	
1,1-Dichloropropene	ug/L	50	47.8	96	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.8	98	60-140	
1,2,3-Trichloropropane	ug/L	50	44.4	89	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	60-140	
1,2,4-Trimethylbenzene	ug/L	50	44.9	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.0	104	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.1	98	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	42.5	85	60-140	
1,2-Dichloropropane	ug/L	50	46.4	93	60-140	
1,3,5-Trimethylbenzene	ug/L	50	46.3	93	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507401

LABORATORY CONTROL SAMPLE: 3078393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.7	95	60-140	
1,3-Dichloropropane	ug/L	50	49.4	99	60-140	
1,4-Dichlorobenzene	ug/L	50	47.6	95	60-140	
2,2-Dichloropropane	ug/L	50	46.2	92	60-140	
2-Chlorotoluene	ug/L	50	47.3	95	60-140	
4-Chlorotoluene	ug/L	50	46.0	92	60-140	
Benzene	ug/L	50	47.9	96	60-140	
Bromobenzene	ug/L	50	47.2	94	60-140	
Bromochloromethane	ug/L	50	48.1	96	60-140	
Bromodichloromethane	ug/L	50	45.8	92	60-140	
Bromoform	ug/L	50	45.8	92	60-140	
Bromomethane	ug/L	50	54.0	108	60-140	
Carbon tetrachloride	ug/L	50	46.9	94	60-140	
Chlorobenzene	ug/L	50	46.5	93	60-140	
Chloroethane	ug/L	50	44.6	89	60-140	
Chloroform	ug/L	50	47.1	94	60-140	
Chloromethane	ug/L	50	40.4	81	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.5	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	60-140	
Dibromochloromethane	ug/L	50	52.3	105	60-140	
Dibromomethane	ug/L	50	45.3	91	60-140	
Dichlorodifluoromethane	ug/L	50	36.5	73	60-140	
Diisopropyl ether	ug/L	50	45.9	92	60-140	
Ethylbenzene	ug/L	50	46.1	92	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.3	95	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.2	94	60-140	
m&p-Xylene	ug/L	100	92.7	93	60-140	
Methyl-tert-butyl ether	ug/L	50	46.4	93	60-140	
Methylene Chloride	ug/L	50	44.1	88	60-140	
n-Butylbenzene	ug/L	50	46.6	93	60-140	
n-Propylbenzene	ug/L	50	46.6	93	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	46.5	93	60-140	
Styrene	ug/L	50	47.3	95	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	46.6	93	60-140	
Toluene	ug/L	50	43.6	87	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.9	94	60-140	
Trichloroethene	ug/L	50	46.7	93	60-140	
Trichlorofluoromethane	ug/L	50	43.1	86	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			93	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507401

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078394 3078395

Parameter	Units	92507473001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.6	21.8	103	109	60-140	6	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	21.7	104	108	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.1	20.6	100	103	60-140	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.0	21.2	100	106	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	21.0	20.8	105	104	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	21.1	22.0	105	110	60-140	5	
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.2	108	111	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.5	21.1	103	106	60-140	3	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.6	20.0	98	100	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.5	20.4	97	102	60-140	5	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.4	19.4	97	97	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.8	22.7	109	113	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.8	21.3	104	107	60-140	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	19.8	97	99	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	18.5	19.1	93	95	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	21.0	22.1	105	110	60-140	5	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.4	20.0	97	100	60-140	3	
1,3-Dichloropropane	ug/L	ND	20	20	21.8	21.7	109	109	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.1	20.4	100	102	60-140	1	
2,2-Dichloropropane	ug/L	ND	20	20	21.4	22.2	107	111	60-140	4	
2-Chlorotoluene	ug/L	ND	20	20	20.5	20.6	102	103	60-140	1	
4-Chlorotoluene	ug/L	ND	20	20	20.0	20.0	100	100	60-140	0	
Benzene	ug/L	ND	20	20	22.0	21.6	110	108	60-140	2	
Bromobenzene	ug/L	ND	20	20	20.4	20.6	102	103	60-140	1	
Bromochloromethane	ug/L	ND	20	20	20.7	21.2	104	106	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.3	21.9	102	109	60-140	8	
Bromoform	ug/L	ND	20	20	19.7	19.9	98	99	60-140	1	
Bromomethane	ug/L	ND	20	20	23.7	25.5	119	127	60-140	7	
Carbon tetrachloride	ug/L	ND	20	20	21.4	23.1	107	116	60-140	8	
Chlorobenzene	ug/L	ND	20	20	20.4	20.9	102	105	60-140	3	
Chloroethane	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4	
Chloroform	ug/L	4.2	20	20	24.6	26.2	102	110	60-140	6	
Chloromethane	ug/L	ND	20	20	19.3	18.5	96	93	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.9	20.1	100	101	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.8	22.3	109	111	60-140	2	
Dibromochloromethane	ug/L	ND	20	20	21.8	23.0	109	115	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.5	22.5	102	113	60-140	10	
Dichlorodifluoromethane	ug/L	ND	20	20	16.7	17.4	83	87	60-140	4	
Diisopropyl ether	ug/L	ND	20	20	19.8	19.6	99	98	60-140	1	
Ethylbenzene	ug/L	ND	20	20	20.5	21.0	102	105	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.8	21.3	104	106	60-140	2	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.7	21.5	104	107	60-140	4	
m&p-Xylene	ug/L	ND	40	40	40.7	41.8	102	104	60-140	3	
Methyl-tert-butyl ether	ug/L	11.3	20	20	31.1	31.3	99	100	60-140	1	
Methylene Chloride	ug/L	ND	20	20	19.2	18.9	96	94	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507401

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078394 3078395

Parameter	Units	92507473001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.0	20.5	100	102	60-140	2	
n-Propylbenzene	ug/L	ND	20	20	20.7	20.5	103	103	60-140	1	
Naphthalene	ug/L	ND	20	20	20.1	20.9	100	105	60-140	4	
o-Xylene	ug/L	ND	20	20	20.1	21.2	101	106	60-140	5	
sec-Butylbenzene	ug/L	ND	20	20	20.8	20.5	104	103	60-140	2	
Styrene	ug/L	ND	20	20	15.8	17.6	79	88	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	17.8	18.0	89	90	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	20.9	21.3	105	107	60-140	2	
Toluene	ug/L	ND	20	20	20.2	21.1	101	105	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.6	22.4	103	112	60-140	8	
Trichloroethene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3	
Trichlorofluoromethane	ug/L	ND	20	20	20.6	22.4	103	112	60-140	8	
Vinyl chloride	ug/L	ND	20	20	19.9	19.9	100	99	60-140	0	
1,2-Dichloroethane-d4 (S)	%						96	100	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92507401

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92507401

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92507401001	**13926A_HC_RD**	MADEPV	1584076	MADEP VPH	1584076
92507401001	**13926A_HC_RD**	EPA 3010A	582084	EPA 6010D	582114
92507401001	**13926A_HC_RD**	SM 6200B	582014		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB USE **WO# : 92507401**

92507401

umber or

Company: Apex Companies

Billing Information:

Address:

Report To: Andrew Street

Email To: ~~[illegible]~~

Copy To:

Site Collection Info/Address: 13926 A HC RD

Customer Project Name/Number: 2020-11-2448

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

Phone:
Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Matt Fraioli

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required: ASAP

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: _____

Container

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:

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	6200 B	MADEP VPH	Lead							Lab Sample # / Comments
13926 A HC RD	DW	G	11/19 MF	1655				8	X	X	X							92507401 001

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: ziplock/bubble wrap

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

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

Lab Tracking #: 2560820

Samples received via: (FEDEX) UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 3.5 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 3.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Apex	11/20/20 0830	Apex	11-20-20/0830
Apex	11-20-20/1035	MDuPont HW 11/20/20	1035

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

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.**

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

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

Project # **WO#: 92507401**

PM: AMB Due Date: 12/01/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2020

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

RE: Project: 2020-LI-2448
Pace Project No.: 92507404

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised report is being submitted on 12/4/2020 to revise the sample ID, per client request.

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448
Pace Project No.: 92507404

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448
Pace Project No.: 92507404

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92507404001	**13800_HC_RD**	MADEP VPH	ADM	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507404

Sample: 13800_HC_RD **Lab ID: 92507404001** Collected: 11/19/20 14:03 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	11/30/20 12:43	11/30/20 12:43		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/30/20 12:43	11/30/20 12:43		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/30/20 12:43	11/30/20 12:43	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/30/20 12:43	11/30/20 12:43	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.5	%	70.0-130	1	11/30/20 12:43	11/30/20 12:43	615-59-8FID	
2,5-Dibromotoluene (PID)	89.6	%	70.0-130	1	11/30/20 12:43	11/30/20 12:43	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**5.7**	ug/L	5.0	1	11/21/20 03:19	11/23/20 23:05	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/21/20 05:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/21/20 05:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/21/20 05:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/21/20 05:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/21/20 05:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/21/20 05:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/21/20 05:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/21/20 05:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/21/20 05:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/21/20 05:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/21/20 05:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/21/20 05:13	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/21/20 05:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/21/20 05:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/21/20 05:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/21/20 05:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/21/20 05:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/21/20 05:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/21/20 05:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/21/20 05:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/21/20 05:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/21/20 05:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/21/20 05:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/21/20 05:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/21/20 05:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/21/20 05:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/21/20 05:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/21/20 05:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/21/20 05:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/21/20 05:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/21/20 05:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/21/20 05:13	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448
Pace Project No.: 92507404

Sample: 13800_HC_RD **Lab ID: 92507404001** Collected: 11/19/20 14:03 Received: 11/20/20 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/21/20 05:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/21/20 05:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/21/20 05:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/21/20 05:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/21/20 05:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/21/20 05:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/21/20 05:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/21/20 05:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/21/20 05:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/21/20 05:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/21/20 05:13	103-65-1	
Styrene	ND	ug/L	0.50	1		11/21/20 05:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/21/20 05:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/21/20 05:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/21/20 05:13	127-18-4	
Toluene	ND	ug/L	0.50	1		11/21/20 05:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/21/20 05:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/21/20 05:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/21/20 05:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/21/20 05:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/21/20 05:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/21/20 05:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/21/20 05:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/21/20 05:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/21/20 05:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/21/20 05:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/21/20 05:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/21/20 05:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/21/20 05:13	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		11/21/20 05:13	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/21/20 05:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507404

QC Batch: 1584076
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92507404001

METHOD BLANK: R3599157-3 Matrix: Water
Associated Lab Samples: 92507404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/30/20 11:04	
Aliphatic (C09-C12)	ug/L	ND	100	11/30/20 11:04	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/30/20 11:04	
Total VPH	ug/L	ND	100	11/30/20 11:04	
2,5-Dibromotoluene (FID)	%	84.3	70.0-130	11/30/20 11:04	
2,5-Dibromotoluene (PID)	%	78.8	70.0-130	11/30/20 11:04	

LABORATORY CONTROL SAMPLE & LCSD: R3599157-1 R3599157-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1000	988	83.3	82.3	70.0-130	1.21	25	
Aliphatic (C09-C12)	ug/L	1400	1420	1400	101	100	70.0-130	1.42	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	202	198	101	99.0	70.0-130	2.00	25	
Total VPH	ug/L	2800	2620	2590	93.6	92.5	70.0-130	1.15	25	
2,5-Dibromotoluene (FID)	%				95.0	96.3	70.0-130			
2,5-Dibromotoluene (PID)	%				91.1	92.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507404

QC Batch: 582084
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92507404001

METHOD BLANK: 3078716 Matrix: Water
Associated Lab Samples: 92507404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/23/20 21:21	

LABORATORY CONTROL SAMPLE: 3078717

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078718 3078719

Parameter	Units	92506490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	253	257	101	102	75-125	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507404

QC Batch: 582014
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507404001

METHOD BLANK: 3078392 Matrix: Water
Associated Lab Samples: 92507404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1-Dichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,1-Dichloroethene	ug/L	ND	0.50	11/21/20 01:20	
1,1-Dichloropropene	ug/L	ND	0.50	11/21/20 01:20	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/21/20 01:20	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/21/20 01:20	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/21/20 01:20	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/21/20 01:20	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dichloroethane	ug/L	ND	0.50	11/21/20 01:20	
1,2-Dichloropropane	ug/L	ND	0.50	11/21/20 01:20	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/21/20 01:20	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
1,3-Dichloropropane	ug/L	ND	0.50	11/21/20 01:20	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
2,2-Dichloropropane	ug/L	ND	0.50	11/21/20 01:20	
2-Chlorotoluene	ug/L	ND	0.50	11/21/20 01:20	
4-Chlorotoluene	ug/L	ND	0.50	11/21/20 01:20	
Benzene	ug/L	ND	0.50	11/21/20 01:20	
Bromobenzene	ug/L	ND	0.50	11/21/20 01:20	
Bromochloromethane	ug/L	ND	0.50	11/21/20 01:20	
Bromodichloromethane	ug/L	ND	0.50	11/21/20 01:20	
Bromoform	ug/L	ND	0.50	11/21/20 01:20	
Bromomethane	ug/L	ND	5.0	11/21/20 01:20	
Carbon tetrachloride	ug/L	ND	0.50	11/21/20 01:20	
Chlorobenzene	ug/L	ND	0.50	11/21/20 01:20	
Chloroethane	ug/L	ND	1.0	11/21/20 01:20	
Chloroform	ug/L	ND	0.50	11/21/20 01:20	
Chloromethane	ug/L	ND	1.0	11/21/20 01:20	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/21/20 01:20	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/21/20 01:20	
Dibromochloromethane	ug/L	ND	0.50	11/21/20 01:20	
Dibromomethane	ug/L	ND	0.50	11/21/20 01:20	
Dichlorodifluoromethane	ug/L	ND	0.50	11/21/20 01:20	
Diisopropyl ether	ug/L	ND	0.50	11/21/20 01:20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507404

METHOD BLANK: 3078392 Matrix: Water
Associated Lab Samples: 92507404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/21/20 01:20	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/21/20 01:20	
m&p-Xylene	ug/L	ND	1.0	11/21/20 01:20	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/21/20 01:20	
Methylene Chloride	ug/L	ND	2.0	11/21/20 01:20	
n-Butylbenzene	ug/L	ND	0.50	11/21/20 01:20	
n-Propylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Naphthalene	ug/L	ND	2.0	11/21/20 01:20	
o-Xylene	ug/L	ND	0.50	11/21/20 01:20	
sec-Butylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Styrene	ug/L	ND	0.50	11/21/20 01:20	
tert-Butylbenzene	ug/L	ND	0.50	11/21/20 01:20	
Tetrachloroethene	ug/L	ND	0.50	11/21/20 01:20	
Toluene	ug/L	ND	0.50	11/21/20 01:20	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/21/20 01:20	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/21/20 01:20	
Trichloroethene	ug/L	ND	0.50	11/21/20 01:20	
Trichlorofluoromethane	ug/L	ND	1.0	11/21/20 01:20	
Vinyl chloride	ug/L	ND	1.0	11/21/20 01:20	
1,2-Dichloroethane-d4 (S)	%	103	70-130	11/21/20 01:20	
4-Bromofluorobenzene (S)	%	96	70-130	11/21/20 01:20	
Toluene-d8 (S)	%	105	70-130	11/21/20 01:20	

LABORATORY CONTROL SAMPLE: 3078393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.5	97	60-140	
1,1,1-Trichloroethane	ug/L	50	47.4	95	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	45.8	92	60-140	
1,1,2-Trichloroethane	ug/L	50	44.8	90	60-140	
1,1-Dichloroethane	ug/L	50	48.7	97	60-140	
1,1-Dichloroethene	ug/L	50	48.0	96	60-140	
1,1-Dichloropropene	ug/L	50	47.8	96	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.8	98	60-140	
1,2,3-Trichloropropane	ug/L	50	44.4	89	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	60-140	
1,2,4-Trimethylbenzene	ug/L	50	44.9	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.0	104	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.1	98	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	42.5	85	60-140	
1,2-Dichloropropane	ug/L	50	46.4	93	60-140	
1,3,5-Trimethylbenzene	ug/L	50	46.3	93	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507404

LABORATORY CONTROL SAMPLE: 3078393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.7	95	60-140	
1,3-Dichloropropane	ug/L	50	49.4	99	60-140	
1,4-Dichlorobenzene	ug/L	50	47.6	95	60-140	
2,2-Dichloropropane	ug/L	50	46.2	92	60-140	
2-Chlorotoluene	ug/L	50	47.3	95	60-140	
4-Chlorotoluene	ug/L	50	46.0	92	60-140	
Benzene	ug/L	50	47.9	96	60-140	
Bromobenzene	ug/L	50	47.2	94	60-140	
Bromochloromethane	ug/L	50	48.1	96	60-140	
Bromodichloromethane	ug/L	50	45.8	92	60-140	
Bromoform	ug/L	50	45.8	92	60-140	
Bromomethane	ug/L	50	54.0	108	60-140	
Carbon tetrachloride	ug/L	50	46.9	94	60-140	
Chlorobenzene	ug/L	50	46.5	93	60-140	
Chloroethane	ug/L	50	44.6	89	60-140	
Chloroform	ug/L	50	47.1	94	60-140	
Chloromethane	ug/L	50	40.4	81	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.5	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	60-140	
Dibromochloromethane	ug/L	50	52.3	105	60-140	
Dibromomethane	ug/L	50	45.3	91	60-140	
Dichlorodifluoromethane	ug/L	50	36.5	73	60-140	
Diisopropyl ether	ug/L	50	45.9	92	60-140	
Ethylbenzene	ug/L	50	46.1	92	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.3	95	60-140	
Isopropylbenzene (Cumene)	ug/L	50	47.2	94	60-140	
m&p-Xylene	ug/L	100	92.7	93	60-140	
Methyl-tert-butyl ether	ug/L	50	46.4	93	60-140	
Methylene Chloride	ug/L	50	44.1	88	60-140	
n-Butylbenzene	ug/L	50	46.6	93	60-140	
n-Propylbenzene	ug/L	50	46.6	93	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	46.5	93	60-140	
Styrene	ug/L	50	47.3	95	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	46.6	93	60-140	
Toluene	ug/L	50	43.6	87	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.9	94	60-140	
Trichloroethene	ug/L	50	46.7	93	60-140	
Trichlorofluoromethane	ug/L	50	43.1	86	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			93	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507404

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078394 3078395

Parameter	Units	92507473001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.6	21.8	103	109	60-140	6	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	21.7	104	108	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.1	20.6	100	103	60-140	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.0	21.2	100	106	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	21.0	20.8	105	104	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	21.1	22.0	105	110	60-140	5	
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.2	108	111	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.5	21.1	103	106	60-140	3	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.6	20.0	98	100	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.5	20.4	97	102	60-140	5	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.4	19.4	97	97	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.8	22.7	109	113	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.8	21.3	104	107	60-140	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	19.8	97	99	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	18.5	19.1	93	95	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	21.0	22.1	105	110	60-140	5	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.4	20.0	97	100	60-140	3	
1,3-Dichloropropane	ug/L	ND	20	20	21.8	21.7	109	109	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.1	20.4	100	102	60-140	1	
2,2-Dichloropropane	ug/L	ND	20	20	21.4	22.2	107	111	60-140	4	
2-Chlorotoluene	ug/L	ND	20	20	20.5	20.6	102	103	60-140	1	
4-Chlorotoluene	ug/L	ND	20	20	20.0	20.0	100	100	60-140	0	
Benzene	ug/L	ND	20	20	22.0	21.6	110	108	60-140	2	
Bromobenzene	ug/L	ND	20	20	20.4	20.6	102	103	60-140	1	
Bromochloromethane	ug/L	ND	20	20	20.7	21.2	104	106	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.3	21.9	102	109	60-140	8	
Bromoform	ug/L	ND	20	20	19.7	19.9	98	99	60-140	1	
Bromomethane	ug/L	ND	20	20	23.7	25.5	119	127	60-140	7	
Carbon tetrachloride	ug/L	ND	20	20	21.4	23.1	107	116	60-140	8	
Chlorobenzene	ug/L	ND	20	20	20.4	20.9	102	105	60-140	3	
Chloroethane	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4	
Chloroform	ug/L	4.2	20	20	24.6	26.2	102	110	60-140	6	
Chloromethane	ug/L	ND	20	20	19.3	18.5	96	93	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.9	20.1	100	101	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.8	22.3	109	111	60-140	2	
Dibromochloromethane	ug/L	ND	20	20	21.8	23.0	109	115	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.5	22.5	102	113	60-140	10	
Dichlorodifluoromethane	ug/L	ND	20	20	16.7	17.4	83	87	60-140	4	
Diisopropyl ether	ug/L	ND	20	20	19.8	19.6	99	98	60-140	1	
Ethylbenzene	ug/L	ND	20	20	20.5	21.0	102	105	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.8	21.3	104	106	60-140	2	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.7	21.5	104	107	60-140	4	
m&p-Xylene	ug/L	ND	40	40	40.7	41.8	102	104	60-140	3	
Methyl-tert-butyl ether	ug/L	11.3	20	20	31.1	31.3	99	100	60-140	1	
Methylene Chloride	ug/L	ND	20	20	19.2	18.9	96	94	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448
Pace Project No.: 92507404

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078394 3078395

Parameter	Units	92507473001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.0	20.5	100	102	60-140	2	
n-Propylbenzene	ug/L	ND	20	20	20.7	20.5	103	103	60-140	1	
Naphthalene	ug/L	ND	20	20	20.1	20.9	100	105	60-140	4	
o-Xylene	ug/L	ND	20	20	20.1	21.2	101	106	60-140	5	
sec-Butylbenzene	ug/L	ND	20	20	20.8	20.5	104	103	60-140	2	
Styrene	ug/L	ND	20	20	15.8	17.6	79	88	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	17.8	18.0	89	90	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	20.9	21.3	105	107	60-140	2	
Toluene	ug/L	ND	20	20	20.2	21.1	101	105	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.6	22.4	103	112	60-140	8	
Trichloroethene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3	
Trichlorofluoromethane	ug/L	ND	20	20	20.6	22.4	103	112	60-140	8	
Vinyl chloride	ug/L	ND	20	20	19.9	19.9	100	99	60-140	0	
1,2-Dichloroethane-d4 (S)	%						96	100	70-130		
4-Bromofluorobenzene (S)	%						97	97	70-130		
Toluene-d8 (S)	%						99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448
Pace Project No.: 92507404

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448
Pace Project No.: 92507404

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92507404001	**13800_HC_RD**	MADEPV	1584076	MADEP VPH	1584076
92507404001	**13800_HC_RD**	EPA 3010A	582084	EPA 6010D	582114
92507404001	**13800_HC_RD**	SM 6200B	582014		

WO# : 92507404

92507404

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB U... Number or

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To:
Copy To:	Site Collection Info/Address: 13800 Lawther
Customer Project Name/Number: 2020-LI-2448	State: NC County/City: Huntersville Time Zone Collected: [ ]PT [ ]MT [ ]CT [✓]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Matt Fraioli	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround/Date Required: ASAP 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: —

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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 6200 B	MADEP VPH	Lead	Lab Profile/Line: Lab Sample # / Comments:
13800 Lawther	DW	G	11/19	1403				8	X	X	X	92507404 001

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: _____	
Sulfide Present	Y N (NA)
Lead Acetate Strips: _____	

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Ziploc/bubble wrap

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

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

Lab Tracking #: 2560818

Samples received via: (FEDEX) UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: T2T064

Cooler 1 Temp Upon Receipt: 3.5 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 3.4 oC

Comments:

Relinquished by/Company: (Signature) Apex	Date/Time: 0830 11/20/20	Received by/Company: (Signature) Apex	Date/Time: 11-20-19/0830	MTJL LAB USE ONLY
Relinquished by/Company: (Signature) Apex	Date/Time: 11-20-20/1035	Received by/Company: (Signature) MDG FedEx 11-20-20 10:35	Date/Time:	Table #: Acctnum: Template: Prelogin: PM: PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

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.**

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

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

Project # **WO# : 92507404**

PM: AMB Due Date: 12/01/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 24, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508004001	**14401_HC_RD_20201124**	MADEP VPH	JAH	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

Sample: 14401_HC_RD_20201124 **Lab ID: 92508004001** Collected: 11/24/20 13:15 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/02/20 06:37	12/02/20 06:37		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/02/20 06:37	12/02/20 06:37		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/02/20 06:37	12/02/20 06:37	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/02/20 06:37	12/02/20 06:37	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.6	%	70.0-130	1	12/02/20 06:37	12/02/20 06:37	615-59-8FID	
2,5-Dibromotoluene (PID)	91.1	%	70.0-130	1	12/02/20 06:37	12/02/20 06:37	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	11/30/20 10:55	12/03/20 23:46	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/25/20 23:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/25/20 23:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/25/20 23:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/25/20 23:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/25/20 23:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/25/20 23:07	74-83-9	M1
n-Butylbenzene	ND	ug/L	0.50	1		11/25/20 23:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/25/20 23:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/25/20 23:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/25/20 23:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/25/20 23:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/25/20 23:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/25/20 23:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/20 23:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/25/20 23:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/25/20 23:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/25/20 23:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/25/20 23:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/25/20 23:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/25/20 23:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 23:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 23:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 23:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/25/20 23:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/25/20 23:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/25/20 23:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/25/20 23:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/25/20 23:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/25/20 23:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/25/20 23:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/25/20 23:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/25/20 23:07	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

Sample: 14401_HC_RD_20201124 **Lab ID: 92508004001** Collected: 11/24/20 13:15 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/25/20 23:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/25/20 23:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/25/20 23:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/25/20 23:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/25/20 23:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/25/20 23:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/25/20 23:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/25/20 23:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/25/20 23:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/25/20 23:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/25/20 23:07	103-65-1	
Styrene	ND	ug/L	0.50	1		11/25/20 23:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/25/20 23:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/25/20 23:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/25/20 23:07	127-18-4	
Toluene	ND	ug/L	0.50	1		11/25/20 23:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/25/20 23:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/25/20 23:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/25/20 23:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/25/20 23:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/25/20 23:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/25/20 23:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/25/20 23:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/25/20 23:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/25/20 23:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/25/20 23:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/25/20 23:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/25/20 23:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		11/25/20 23:07	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		11/25/20 23:07	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		11/25/20 23:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

QC Batch: 1584890
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508004001

METHOD BLANK: R3599477-3 Matrix: Water
Associated Lab Samples: 92508004001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/01/20 20:01	
Aliphatic (C09-C12)	ug/L	ND	100	12/01/20 20:01	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/01/20 20:01	
Total VPH	ug/L	ND	100	12/01/20 20:01	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	12/01/20 20:01	
2,5-Dibromotoluene (PID)	%	94.3	70.0-130	12/01/20 20:01	

LABORATORY CONTROL SAMPLE & LCSD: R3599477-1 R3599477-2

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	1210	104	101	70.0-130	3.25	25	
Aliphatic (C09-C12)	ug/L	1400	1410	1340	101	95.7	70.0-130	5.09	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	187	93.0	93.5	70.0-130	0.536	25	
Total VPH	ug/L	2800	2850	2740	102	97.9	70.0-130	3.94	25	
2,5-Dibromotoluene (FID)	%				93.3	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	96.1	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

QC Batch: 583174
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508004001

METHOD BLANK: 3083588 Matrix: Water
Associated Lab Samples: 92508004001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/03/20 23:39	

LABORATORY CONTROL SAMPLE: 3083589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083590 3083591

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	261	258	102	102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

QC Batch: 583032
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508004001

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508004001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
2,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
2-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
4-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
Benzene	ug/L	ND	0.50	11/25/20 22:14	
Bromobenzene	ug/L	ND	0.50	11/25/20 22:14	
Bromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromodichloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromoform	ug/L	ND	0.50	11/25/20 22:14	
Bromomethane	ug/L	ND	5.0	11/25/20 22:14	
Carbon tetrachloride	ug/L	ND	0.50	11/25/20 22:14	
Chlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
Chloroethane	ug/L	ND	1.0	11/25/20 22:14	
Chloroform	ug/L	ND	0.50	11/25/20 22:14	
Chloromethane	ug/L	ND	1.0	11/25/20 22:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Dibromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Dibromomethane	ug/L	ND	0.50	11/25/20 22:14	
Dichlorodifluoromethane	ug/L	ND	0.50	11/25/20 22:14	
Diisopropyl ether	ug/L	ND	0.50	11/25/20 22:14	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508004001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/25/20 22:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/25/20 22:14	
m&p-Xylene	ug/L	ND	1.0	11/25/20 22:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/25/20 22:14	
Methylene Chloride	ug/L	ND	2.0	11/25/20 22:14	
n-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
n-Propylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Naphthalene	ug/L	ND	2.0	11/25/20 22:14	
o-Xylene	ug/L	ND	0.50	11/25/20 22:14	
sec-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Styrene	ug/L	ND	0.50	11/25/20 22:14	
tert-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Tetrachloroethene	ug/L	ND	0.50	11/25/20 22:14	
Toluene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Trichloroethene	ug/L	ND	0.50	11/25/20 22:14	
Trichlorofluoromethane	ug/L	ND	1.0	11/25/20 22:14	
Vinyl chloride	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/25/20 22:14	
4-Bromofluorobenzene (S)	%	95	70-130	11/25/20 22:14	
Toluene-d8 (S)	%	102	70-130	11/25/20 22:14	

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	60-140	
1,1,1-Trichloroethane	ug/L	50	45.7	91	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	42.7	85	60-140	
1,1,2-Trichloroethane	ug/L	50	46.2	92	60-140	
1,1-Dichloroethane	ug/L	50	46.7	93	60-140	
1,1-Dichloroethene	ug/L	50	44.2	88	60-140	
1,1-Dichloropropene	ug/L	50	48.4	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.6	97	60-140	
1,2,3-Trichloropropane	ug/L	50	40.2	80	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.2	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	49.2	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	39.8	80	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,3-Dichloropropane	ug/L	50	52.0	104	60-140	
1,4-Dichlorobenzene	ug/L	50	47.3	95	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	41.3	83	60-140	
4-Chlorotoluene	ug/L	50	41.5	83	60-140	
Benzene	ug/L	50	46.2	92	60-140	
Bromobenzene	ug/L	50	47.1	94	60-140	
Bromochloromethane	ug/L	50	48.4	97	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	45.4	91	60-140	
Bromomethane	ug/L	50	49.8	100	60-140	
Carbon tetrachloride	ug/L	50	43.2	86	60-140	
Chlorobenzene	ug/L	50	46.3	93	60-140	
Chloroethane	ug/L	50	40.1	80	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	39.6	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	46.9	94	60-140	
Dichlorodifluoromethane	ug/L	50	42.7	85	60-140	
Diisopropyl ether	ug/L	50	44.3	89	60-140	
Ethylbenzene	ug/L	50	45.2	90	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	60-140	
m&p-Xylene	ug/L	100	96.7	97	60-140	
Methyl-tert-butyl ether	ug/L	50	46.7	93	60-140	
Methylene Chloride	ug/L	50	42.4	85	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	45.0	90	60-140	
Naphthalene	ug/L	50	45.6	91	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	47.3	95	60-140	
Styrene	ug/L	50	47.2	94	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	47.3	95	60-140	
Toluene	ug/L	50	45.2	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.5	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.5	81	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.0	24.7	120	123	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.3	18.6	101	93	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.8	19.6	104	98	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	23.5	24.1	118	121	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	24.9	24.7	124	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	25.1	122	125	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.9	18.8	99	94	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.9	18.4	94	92	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.8	18.4	99	92	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.1	19.0	95	95	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.3	22.2	111	111	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	21.0	106	105	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	18.7	98	94	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.9	20.9	105	105	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	22.4	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	19.8	101	99	60-140	2	
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	20.3	19.4	101	97	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	23.8	24.1	119	120	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.9	19.9	104	100	60-140	5	
4-Chlorotoluene	ug/L	ND	20	20	20.2	19.6	101	98	60-140	3	
Benzene	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0	
Bromobenzene	ug/L	ND	20	20	20.6	20.2	103	101	60-140	2	
Bromochloromethane	ug/L	ND	20	20	23.9	23.5	120	118	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.9	20.8	105	104	60-140	1	
Bromoform	ug/L	ND	20	20	20.6	19.8	103	99	60-140	4	
Bromomethane	ug/L	ND	20	20	26.3	28.2	132	141	60-140	7	M1
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.5	113	112	60-140	0	
Chlorobenzene	ug/L	ND	20	20	20.9	20.3	104	102	60-140	3	
Chloroethane	ug/L	ND	20	20	23.3	23.7	116	119	60-140	2	
Chloroform	ug/L	ND	20	20	23.7	23.9	118	120	60-140	1	
Chloromethane	ug/L	ND	20	20	21.8	22.0	109	110	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.6	21.5	113	107	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	22.7	23.7	113	119	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	20.1	20.6	101	103	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	22.0	22.7	110	113	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.9	20.2	105	101	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	22.5	108	113	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	19.6	107	98	60-140	8	
m&p-Xylene	ug/L	ND	40	40	41.2	39.3	103	98	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.6	23.3	113	116	60-140	3	
Methylene Chloride	ug/L	ND	20	20	21.5	22.4	107	112	60-140	4	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.1	19.4	101	97	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	6	
Naphthalene	ug/L	ND	20	20	19.9	19.1	99	96	60-140	4	
o-Xylene	ug/L	ND	20	20	21.2	19.5	106	98	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	3	
Styrene	ug/L	ND	20	20	20.9	18.7	104	94	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.8	90	89	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	21.1	22.0	106	110	60-140	4	
Toluene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.3	24.5	122	123	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.0	19.9	105	100	60-140	5	
Trichloroethene	ug/L	ND	20	20	22.3	21.9	111	110	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	23.4	23.3	117	117	60-140	0	
Vinyl chloride	ug/L	ND	20	20	22.9	23.5	115	117	60-140	2	
1,2-Dichloroethane-d4 (S)	%						105	108	70-130		
4-Bromofluorobenzene (S)	%						99	94	70-130		
Toluene-d8 (S)	%						101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508004

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508004001	**14401_HC_RD_20201124**	MADEPV	1584890	MADEP VPH	1584890
92508004001	**14401_HC_RD_20201124**	EPA 3010A	583174	EPA 6010D	583303
92508004001	**14401_HC_RD_20201124**	SM 6200B	583032		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical™

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

WO# : 92508004

92508004

order Number or

ONLY

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 14401 Huntersville Concord Rd
Customer Project Name/Number: 2020-LI-2448 Incident	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP 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: _____

** 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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 6200B	Analyses: MADEP VPH	Analyses: Lead	Lab Profile/Line:
14401.HC.RD.20201124	DW	G	11-24-20	1315				8	X	X	X	92508004 001

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)
Sample pH Acceptable	(Y)	N	NA
Sulfide Present	Y	N	(NA)

Cl Strips: _____

pH Strips: _____

Lead Acetate Strips: _____

LAB USE ONLY

Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap/ ziploc

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

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

Lab Tracking #: 2560519

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 920064

Cooler 1 Temp Upon Receipt: 1.9 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 1.8 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	11/24/20 1410	LDH PACE HVL	11/24/20 1413
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

***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#: 92508004**

PM: AMB Due Date: 11/25/20

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)	SPST-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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 24, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508007001	**13945_AC_RD_20201124**	MADEP VPH	JAH	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

Sample: 13945_AC_RD_20201124 **Lab ID: 92508007001** Collected: 11/24/20 11:55 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/02/20 06:04	12/02/20 06:04		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/02/20 06:04	12/02/20 06:04		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/02/20 06:04	12/02/20 06:04	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/02/20 06:04	12/02/20 06:04	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.1	%	70.0-130	1	12/02/20 06:04	12/02/20 06:04	615-59-8FID	
2,5-Dibromotoluene (PID)	88.3	%	70.0-130	1	12/02/20 06:04	12/02/20 06:04	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**5.6**	ug/L	5.0	1	11/30/20 10:55	12/03/20 23:59	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/25/20 23:25	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/25/20 23:25	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/25/20 23:25	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/25/20 23:25	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/25/20 23:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/25/20 23:25	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/25/20 23:25	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/25/20 23:25	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/25/20 23:25	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/25/20 23:25	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/25/20 23:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/25/20 23:25	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/25/20 23:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/20 23:25	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/25/20 23:25	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/25/20 23:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/25/20 23:25	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/25/20 23:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/25/20 23:25	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/25/20 23:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 23:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 23:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 23:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/25/20 23:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/25/20 23:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/25/20 23:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/25/20 23:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/25/20 23:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/25/20 23:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/25/20 23:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/25/20 23:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/25/20 23:25	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

Sample: 13945_AC_RD_20201124 **Lab ID: 92508007001** Collected: 11/24/20 11:55 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/25/20 23:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/25/20 23:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/25/20 23:25	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/25/20 23:25	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/25/20 23:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/25/20 23:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/25/20 23:25	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/25/20 23:25	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/25/20 23:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/25/20 23:25	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/25/20 23:25	103-65-1	
Styrene	ND	ug/L	0.50	1		11/25/20 23:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/25/20 23:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/25/20 23:25	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/25/20 23:25	127-18-4	
Toluene	ND	ug/L	0.50	1		11/25/20 23:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/25/20 23:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/25/20 23:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/25/20 23:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/25/20 23:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/25/20 23:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/25/20 23:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/25/20 23:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/25/20 23:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/25/20 23:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/25/20 23:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/25/20 23:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/25/20 23:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		11/25/20 23:25	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		11/25/20 23:25	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/25/20 23:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

QC Batch: 1584890
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508007001

METHOD BLANK: R3599477-3 Matrix: Water
Associated Lab Samples: 92508007001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/01/20 20:01	
Aliphatic (C09-C12)	ug/L	ND	100	12/01/20 20:01	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/01/20 20:01	
Total VPH	ug/L	ND	100	12/01/20 20:01	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	12/01/20 20:01	
2,5-Dibromotoluene (PID)	%	94.3	70.0-130	12/01/20 20:01	

LABORATORY CONTROL SAMPLE & LCSD: R3599477-1 R3599477-2

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	1210	104	101	70.0-130	3.25	25	
Aliphatic (C09-C12)	ug/L	1400	1410	1340	101	95.7	70.0-130	5.09	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	187	93.0	93.5	70.0-130	0.536	25	
Total VPH	ug/L	2800	2850	2740	102	97.9	70.0-130	3.94	25	
2,5-Dibromotoluene (FID)	%				93.3	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	96.1	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

QC Batch: 583174
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92508007001

METHOD BLANK: 3083588 Matrix: Water
Associated Lab Samples: 92508007001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/03/20 23:39	

LABORATORY CONTROL SAMPLE: 3083589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083590 3083591

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	261	258	102	102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

QC Batch: 583032
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508007001

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508007001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
2,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
2-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
4-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
Benzene	ug/L	ND	0.50	11/25/20 22:14	
Bromobenzene	ug/L	ND	0.50	11/25/20 22:14	
Bromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromodichloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromoform	ug/L	ND	0.50	11/25/20 22:14	
Bromomethane	ug/L	ND	5.0	11/25/20 22:14	
Carbon tetrachloride	ug/L	ND	0.50	11/25/20 22:14	
Chlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
Chloroethane	ug/L	ND	1.0	11/25/20 22:14	
Chloroform	ug/L	ND	0.50	11/25/20 22:14	
Chloromethane	ug/L	ND	1.0	11/25/20 22:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Dibromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Dibromomethane	ug/L	ND	0.50	11/25/20 22:14	
Dichlorodifluoromethane	ug/L	ND	0.50	11/25/20 22:14	
Diisopropyl ether	ug/L	ND	0.50	11/25/20 22:14	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508007001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/25/20 22:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/25/20 22:14	
m&p-Xylene	ug/L	ND	1.0	11/25/20 22:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/25/20 22:14	
Methylene Chloride	ug/L	ND	2.0	11/25/20 22:14	
n-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
n-Propylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Naphthalene	ug/L	ND	2.0	11/25/20 22:14	
o-Xylene	ug/L	ND	0.50	11/25/20 22:14	
sec-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Styrene	ug/L	ND	0.50	11/25/20 22:14	
tert-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Tetrachloroethene	ug/L	ND	0.50	11/25/20 22:14	
Toluene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Trichloroethene	ug/L	ND	0.50	11/25/20 22:14	
Trichlorofluoromethane	ug/L	ND	1.0	11/25/20 22:14	
Vinyl chloride	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/25/20 22:14	
4-Bromofluorobenzene (S)	%	95	70-130	11/25/20 22:14	
Toluene-d8 (S)	%	102	70-130	11/25/20 22:14	

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	60-140	
1,1,1-Trichloroethane	ug/L	50	45.7	91	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	42.7	85	60-140	
1,1,2-Trichloroethane	ug/L	50	46.2	92	60-140	
1,1-Dichloroethane	ug/L	50	46.7	93	60-140	
1,1-Dichloroethene	ug/L	50	44.2	88	60-140	
1,1-Dichloropropene	ug/L	50	48.4	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.6	97	60-140	
1,2,3-Trichloropropane	ug/L	50	40.2	80	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.2	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	49.2	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	39.8	80	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,3-Dichloropropane	ug/L	50	52.0	104	60-140	
1,4-Dichlorobenzene	ug/L	50	47.3	95	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	41.3	83	60-140	
4-Chlorotoluene	ug/L	50	41.5	83	60-140	
Benzene	ug/L	50	46.2	92	60-140	
Bromobenzene	ug/L	50	47.1	94	60-140	
Bromochloromethane	ug/L	50	48.4	97	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	45.4	91	60-140	
Bromomethane	ug/L	50	49.8	100	60-140	
Carbon tetrachloride	ug/L	50	43.2	86	60-140	
Chlorobenzene	ug/L	50	46.3	93	60-140	
Chloroethane	ug/L	50	40.1	80	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	39.6	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	46.9	94	60-140	
Dichlorodifluoromethane	ug/L	50	42.7	85	60-140	
Diisopropyl ether	ug/L	50	44.3	89	60-140	
Ethylbenzene	ug/L	50	45.2	90	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	60-140	
m&p-Xylene	ug/L	100	96.7	97	60-140	
Methyl-tert-butyl ether	ug/L	50	46.7	93	60-140	
Methylene Chloride	ug/L	50	42.4	85	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	45.0	90	60-140	
Naphthalene	ug/L	50	45.6	91	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	47.3	95	60-140	
Styrene	ug/L	50	47.2	94	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	47.3	95	60-140	
Toluene	ug/L	50	45.2	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.5	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.5	81	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.0	24.7	120	123	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.3	18.6	101	93	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.8	19.6	104	98	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	23.5	24.1	118	121	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	24.9	24.7	124	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	25.1	122	125	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.9	18.8	99	94	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.9	18.4	94	92	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.8	18.4	99	92	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.1	19.0	95	95	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.3	22.2	111	111	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	21.0	106	105	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	18.7	98	94	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.9	20.9	105	105	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	22.4	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	19.8	101	99	60-140	2	
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	20.3	19.4	101	97	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	23.8	24.1	119	120	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.9	19.9	104	100	60-140	5	
4-Chlorotoluene	ug/L	ND	20	20	20.2	19.6	101	98	60-140	3	
Benzene	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0	
Bromobenzene	ug/L	ND	20	20	20.6	20.2	103	101	60-140	2	
Bromochloromethane	ug/L	ND	20	20	23.9	23.5	120	118	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.9	20.8	105	104	60-140	1	
Bromoform	ug/L	ND	20	20	20.6	19.8	103	99	60-140	4	
Bromomethane	ug/L	ND	20	20	26.3	28.2	132	141	60-140	7	M1
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.5	113	112	60-140	0	
Chlorobenzene	ug/L	ND	20	20	20.9	20.3	104	102	60-140	3	
Chloroethane	ug/L	ND	20	20	23.3	23.7	116	119	60-140	2	
Chloroform	ug/L	ND	20	20	23.7	23.9	118	120	60-140	1	
Chloromethane	ug/L	ND	20	20	21.8	22.0	109	110	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.6	21.5	113	107	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	22.7	23.7	113	119	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	20.1	20.6	101	103	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	22.0	22.7	110	113	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.9	20.2	105	101	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	22.5	108	113	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	19.6	107	98	60-140	8	
m&p-Xylene	ug/L	ND	40	40	41.2	39.3	103	98	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.6	23.3	113	116	60-140	3	
Methylene Chloride	ug/L	ND	20	20	21.5	22.4	107	112	60-140	4	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.1	19.4	101	97	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	6	
Naphthalene	ug/L	ND	20	20	19.9	19.1	99	96	60-140	4	
o-Xylene	ug/L	ND	20	20	21.2	19.5	106	98	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	3	
Styrene	ug/L	ND	20	20	20.9	18.7	104	94	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.8	90	89	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	21.1	22.0	106	110	60-140	4	
Toluene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.3	24.5	122	123	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.0	19.9	105	100	60-140	5	
Trichloroethene	ug/L	ND	20	20	22.3	21.9	111	110	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	23.4	23.3	117	117	60-140	0	
Vinyl chloride	ug/L	ND	20	20	22.9	23.5	115	117	60-140	2	
1,2-Dichloroethane-d4 (S)	%						105	108	70-130		
4-Bromofluorobenzene (S)	%						99	94	70-130		
Toluene-d8 (S)	%						101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508007

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508007001	**13945_AC_RD_20201124**	MADEPV	1584890	MADEP VPH	1584890
92508007001	**13945_AC_RD_20201124**	EPA 3010A	583174	EPA 6010D	583303
92508007001	**13945_AC_RD_20201124**	SM 6200B	583032		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE **WO# : 92508007**

92508007

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 13945 Asbury Chapel Rd
Customer Project Name/Number: 2020-LI-2448 Incident	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP 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)

** 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 Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOC 6200B	MADEP VPH	Lead	Lab Sample # / Comments
13945_AC_RD_20201124	DW	G	11-24-20	1155				8	X	X	X	92508007 001

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: _____	
Sulfide Present	Y N (NA)
Lead Acetate Strips: _____	

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap / ziplocs

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

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

Lab Tracking #: 2560518

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 92DU64

Cooler 1 Temp Upon Receipt: 1.4 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 1.3 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	11-24-20 1410	LDH PACE ANL	11/24/20 1413
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

***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# : 92508007**

PM: AMB Due Date: 11/25/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 07, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 24, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised laboratory report is being submitted on 12/7/2020 to revise the 6200B and 6010 reporting lists due to a sample log in error.

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508011001	**13926A_HC_RD_20201124**	MADEP VPH	JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	64	PASI-C

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

Sample: 13926A_HC_RD_20201124 **Lab ID: 92508011001** Collected: 11/24/20 10:05 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/02/20 05:31	12/02/20 05:31		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/02/20 05:31	12/02/20 05:31		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/02/20 05:31	12/02/20 05:31	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/02/20 05:31	12/02/20 05:31	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.9	%	70.0-130	1	12/02/20 05:31	12/02/20 05:31	615-59-8FID	
2,5-Dibromotoluene (PID)	90.9	%	70.0-130	1	12/02/20 05:31	12/02/20 05:31	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	11/30/20 10:55	12/04/20 00:08	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/25/20 23:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/25/20 23:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/25/20 23:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/25/20 23:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/25/20 23:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/25/20 23:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/25/20 23:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/25/20 23:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/25/20 23:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/25/20 23:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/25/20 23:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/25/20 23:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/25/20 23:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/20 23:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/25/20 23:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/25/20 23:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/25/20 23:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/25/20 23:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/25/20 23:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/25/20 23:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 23:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 23:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 23:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/25/20 23:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/25/20 23:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/25/20 23:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/25/20 23:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/25/20 23:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/25/20 23:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/25/20 23:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/25/20 23:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/25/20 23:43	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

Sample: 13926A_HC_RD_20201124 **Lab ID: 92508011001** Collected: 11/24/20 10:05 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/25/20 23:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/25/20 23:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/25/20 23:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/25/20 23:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/25/20 23:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/25/20 23:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/25/20 23:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/25/20 23:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/25/20 23:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/25/20 23:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/25/20 23:43	103-65-1	
Styrene	ND	ug/L	0.50	1		11/25/20 23:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/25/20 23:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/25/20 23:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/25/20 23:43	127-18-4	
Toluene	ND	ug/L	0.50	1		11/25/20 23:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/25/20 23:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/25/20 23:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/25/20 23:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/25/20 23:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/25/20 23:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/25/20 23:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/25/20 23:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/25/20 23:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/25/20 23:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/25/20 23:43	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/25/20 23:43	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		11/25/20 23:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/25/20 23:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/25/20 23:43	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/25/20 23:43	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/25/20 23:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

QC Batch: 1584890
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508011001

METHOD BLANK: R3599477-3 Matrix: Water
Associated Lab Samples: 92508011001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/01/20 20:01	
Aliphatic (C09-C12)	ug/L	ND	100	12/01/20 20:01	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/01/20 20:01	
Total VPH	ug/L	ND	100	12/01/20 20:01	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	12/01/20 20:01	
2,5-Dibromotoluene (PID)	%	94.3	70.0-130	12/01/20 20:01	

LABORATORY CONTROL SAMPLE & LCSD: R3599477-1 R3599477-2

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	1210	104	101	70.0-130	3.25	25	
Aliphatic (C09-C12)	ug/L	1400	1410	1340	101	95.7	70.0-130	5.09	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	187	93.0	93.5	70.0-130	0.536	25	
Total VPH	ug/L	2800	2850	2740	102	97.9	70.0-130	3.94	25	
2,5-Dibromotoluene (FID)	%				93.3	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	96.1	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

QC Batch: 583174
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508011001

METHOD BLANK: 3083588 Matrix: Water
Associated Lab Samples: 92508011001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/03/20 23:39	

LABORATORY CONTROL SAMPLE: 3083589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083590 3083591

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	261	258	102	102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

QC Batch: 583032
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508011001

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508011001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
2,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
2-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
4-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
Benzene	ug/L	ND	0.50	11/25/20 22:14	
Bromobenzene	ug/L	ND	0.50	11/25/20 22:14	
Bromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromodichloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromoform	ug/L	ND	0.50	11/25/20 22:14	
Bromomethane	ug/L	ND	5.0	11/25/20 22:14	
Carbon tetrachloride	ug/L	ND	0.50	11/25/20 22:14	
Chlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
Chloroethane	ug/L	ND	1.0	11/25/20 22:14	
Chloroform	ug/L	ND	0.50	11/25/20 22:14	
Chloromethane	ug/L	ND	1.0	11/25/20 22:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Dibromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Dibromomethane	ug/L	ND	0.50	11/25/20 22:14	
Dichlorodifluoromethane	ug/L	ND	0.50	11/25/20 22:14	
Diisopropyl ether	ug/L	ND	0.50	11/25/20 22:14	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508011001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/25/20 22:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/25/20 22:14	
m&p-Xylene	ug/L	ND	1.0	11/25/20 22:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/25/20 22:14	
Methylene Chloride	ug/L	ND	2.0	11/25/20 22:14	
n-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
n-Propylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Naphthalene	ug/L	ND	2.0	11/25/20 22:14	
o-Xylene	ug/L	ND	0.50	11/25/20 22:14	
sec-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Styrene	ug/L	ND	0.50	11/25/20 22:14	
tert-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Tetrachloroethene	ug/L	ND	0.50	11/25/20 22:14	
Toluene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Trichloroethene	ug/L	ND	0.50	11/25/20 22:14	
Trichlorofluoromethane	ug/L	ND	1.0	11/25/20 22:14	
Vinyl chloride	ug/L	ND	1.0	11/25/20 22:14	
Xylene (Total)	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/25/20 22:14	
4-Bromofluorobenzene (S)	%	95	70-130	11/25/20 22:14	
Toluene-d8 (S)	%	102	70-130	11/25/20 22:14	

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	60-140	
1,1,1-Trichloroethane	ug/L	50	45.7	91	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	42.7	85	60-140	
1,1,2-Trichloroethane	ug/L	50	46.2	92	60-140	
1,1-Dichloroethane	ug/L	50	46.7	93	60-140	
1,1-Dichloroethene	ug/L	50	44.2	88	60-140	
1,1-Dichloropropene	ug/L	50	48.4	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.6	97	60-140	
1,2,3-Trichloropropane	ug/L	50	40.2	80	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.2	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	49.2	98	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3,5-Trimethylbenzene	ug/L	50	39.8	80	60-140	
1,3-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,3-Dichloropropane	ug/L	50	52.0	104	60-140	
1,4-Dichlorobenzene	ug/L	50	47.3	95	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	41.3	83	60-140	
4-Chlorotoluene	ug/L	50	41.5	83	60-140	
Benzene	ug/L	50	46.2	92	60-140	
Bromobenzene	ug/L	50	47.1	94	60-140	
Bromochloromethane	ug/L	50	48.4	97	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	45.4	91	60-140	
Bromomethane	ug/L	50	49.8	100	60-140	
Carbon tetrachloride	ug/L	50	43.2	86	60-140	
Chlorobenzene	ug/L	50	46.3	93	60-140	
Chloroethane	ug/L	50	40.1	80	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	39.6	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	46.9	94	60-140	
Dichlorodifluoromethane	ug/L	50	42.7	85	60-140	
Diisopropyl ether	ug/L	50	44.3	89	60-140	
Ethylbenzene	ug/L	50	45.2	90	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	60-140	
m&p-Xylene	ug/L	100	96.7	97	60-140	
Methyl-tert-butyl ether	ug/L	50	46.7	93	60-140	
Methylene Chloride	ug/L	50	42.4	85	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	45.0	90	60-140	
Naphthalene	ug/L	50	45.6	91	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	47.3	95	60-140	
Styrene	ug/L	50	47.2	94	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	47.3	95	60-140	
Toluene	ug/L	50	45.2	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.5	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.5	81	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
Xylene (Total)	ug/L	150	144	96	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.0	24.7	120	123	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.3	18.6	101	93	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.8	19.6	104	98	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	23.5	24.1	118	121	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	24.9	24.7	124	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	25.1	122	125	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.9	18.8	99	94	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.9	18.4	94	92	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.8	18.4	99	92	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.1	19.0	95	95	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.3	22.2	111	111	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	21.0	106	105	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	18.7	98	94	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.9	20.9	105	105	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	22.4	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	19.8	101	99	60-140	2	
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	20.3	19.4	101	97	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	23.8	24.1	119	120	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.9	19.9	104	100	60-140	5	
4-Chlorotoluene	ug/L	ND	20	20	20.2	19.6	101	98	60-140	3	
Benzene	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0	
Bromobenzene	ug/L	ND	20	20	20.6	20.2	103	101	60-140	2	
Bromochloromethane	ug/L	ND	20	20	23.9	23.5	120	118	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.9	20.8	105	104	60-140	1	
Bromoform	ug/L	ND	20	20	20.6	19.8	103	99	60-140	4	
Bromomethane	ug/L	ND	20	20	26.3	28.2	132	141	60-140	7	M1
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.5	113	112	60-140	0	
Chlorobenzene	ug/L	ND	20	20	20.9	20.3	104	102	60-140	3	
Chloroethane	ug/L	ND	20	20	23.3	23.7	116	119	60-140	2	
Chloroform	ug/L	ND	20	20	23.7	23.9	118	120	60-140	1	
Chloromethane	ug/L	ND	20	20	21.8	22.0	109	110	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.6	21.5	113	107	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	22.7	23.7	113	119	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	20.1	20.6	101	103	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diisopropyl ether	ug/L	ND	20	20	22.0	22.7	110	113	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.9	20.2	105	101	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	22.5	108	113	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	19.6	107	98	60-140	8	
m&p-Xylene	ug/L	ND	40	40	41.2	39.3	103	98	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.6	23.3	113	116	60-140	3	
Methylene Chloride	ug/L	ND	20	20	21.5	22.4	107	112	60-140	4	
n-Butylbenzene	ug/L	ND	20	20	20.1	19.4	101	97	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	6	
Naphthalene	ug/L	ND	20	20	19.9	19.1	99	96	60-140	4	
o-Xylene	ug/L	ND	20	20	21.2	19.5	106	98	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	3	
Styrene	ug/L	ND	20	20	20.9	18.7	104	94	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.8	90	89	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	21.1	22.0	106	110	60-140	4	
Toluene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.3	24.5	122	123	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.0	19.9	105	100	60-140	5	
Trichloroethene	ug/L	ND	20	20	22.3	21.9	111	110	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	23.4	23.3	117	117	60-140	0	
Vinyl chloride	ug/L	ND	20	20	22.9	23.5	115	117	60-140	2	
Xylene (Total)	ug/L	ND	60	60	62.4	58.9	104	98	60-140	6	
1,2-Dichloroethane-d4 (S)	%						105	108	70-130		
4-Bromofluorobenzene (S)	%						99	94	70-130		
Toluene-d8 (S)	%						101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508011

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508011001	**13926A_HC_RD_20201124**	MADEPV	1584890	MADEP VPH	1584890
92508011001	**13926A_HC_RD_20201124**	EPA 3010A	583174	EPA 6010D	583303
92508011001	**13926A_HC_RD_20201124**	SM 6200B	583032		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE **WO# : 92508011** 92508011 ...mber or

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 13926A Huntersville Concord Rd
Customer Project Name/Number: 2020-LI-2448 Incident	State: NC County/City: Huntersville Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP 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) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead							
13926A_HC_RD_20201124	DW	G	11-24-20	1005				8	X	X	X							

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 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: _____	
Sulfide Present	Y N (NA)
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

92508011
001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap / ziploc

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

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

Lab Tracking #: 2560514

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92T004
Cooler 1 Temp Upon Receipt: 1.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	11-24-20 1410	LDH PACE HUC	11/24/20 1413
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

***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# : 92508011**

PM: AMB Due Date: 11/25/20

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)	SPST-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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 24, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508014001	**13926B_HC_RD_20201124**	MADEP VPH	JAH	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

Sample: 13926B_HC_RD_20201124 **Lab ID: 92508014001** Collected: 11/24/20 09:35 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/02/20 04:57	12/02/20 04:57		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/02/20 04:57	12/02/20 04:57		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/02/20 04:57	12/02/20 04:57	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/02/20 04:57	12/02/20 04:57	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.2	%	70.0-130	1	12/02/20 04:57	12/02/20 04:57	615-59-8FID	
2,5-Dibromotoluene (PID)	88.4	%	70.0-130	1	12/02/20 04:57	12/02/20 04:57	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	11/30/20 10:55	12/04/20 00:12	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/26/20 00:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/26/20 00:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/26/20 00:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/26/20 00:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/26/20 00:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/26/20 00:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/26/20 00:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/26/20 00:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/26/20 00:01	75-00-3	
Chloroform	**8.7**	ug/L	0.50	1		11/26/20 00:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/26/20 00:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/26/20 00:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/26/20 00:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/26/20 00:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/26/20 00:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/26/20 00:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/26/20 00:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/26/20 00:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/26/20 00:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/26/20 00:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:01	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

Sample: 13926B_HC_RD_20201124 **Lab ID: 92508014001** Collected: 11/24/20 09:35 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:01	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/26/20 00:01	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/26/20 00:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/26/20 00:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/26/20 00:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/26/20 00:01	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/26/20 00:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/26/20 00:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/26/20 00:01	103-65-1	
Styrene	ND	ug/L	0.50	1		11/26/20 00:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/26/20 00:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/26/20 00:01	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/26/20 00:01	127-18-4	
Toluene	ND	ug/L	0.50	1		11/26/20 00:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/26/20 00:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/26/20 00:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/26/20 00:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/26/20 00:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/26/20 00:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/26/20 00:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/26/20 00:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/26/20 00:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/26/20 00:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/26/20 00:01	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/26/20 00:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/26/20 00:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		11/26/20 00:01	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		11/26/20 00:01	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		11/26/20 00:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

QC Batch: 1584890
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508014001

METHOD BLANK: R3599477-3 Matrix: Water
Associated Lab Samples: 92508014001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/01/20 20:01	
Aliphatic (C09-C12)	ug/L	ND	100	12/01/20 20:01	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/01/20 20:01	
Total VPH	ug/L	ND	100	12/01/20 20:01	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	12/01/20 20:01	
2,5-Dibromotoluene (PID)	%	94.3	70.0-130	12/01/20 20:01	

LABORATORY CONTROL SAMPLE & LCSD: R3599477-1 R3599477-2

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	1210	104	101	70.0-130	3.25	25	
Aliphatic (C09-C12)	ug/L	1400	1410	1340	101	95.7	70.0-130	5.09	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	187	93.0	93.5	70.0-130	0.536	25	
Total VPH	ug/L	2800	2850	2740	102	97.9	70.0-130	3.94	25	
2,5-Dibromotoluene (FID)	%				93.3	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	96.1	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

QC Batch: 583174
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92508014001

METHOD BLANK: 3083588 Matrix: Water
Associated Lab Samples: 92508014001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/03/20 23:39	

LABORATORY CONTROL SAMPLE: 3083589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083590 3083591

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	261	258	102	102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

QC Batch: 583032
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508014001

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508014001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
2,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
2-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
4-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
Benzene	ug/L	ND	0.50	11/25/20 22:14	
Bromobenzene	ug/L	ND	0.50	11/25/20 22:14	
Bromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromodichloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromoform	ug/L	ND	0.50	11/25/20 22:14	
Bromomethane	ug/L	ND	5.0	11/25/20 22:14	
Carbon tetrachloride	ug/L	ND	0.50	11/25/20 22:14	
Chlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
Chloroethane	ug/L	ND	1.0	11/25/20 22:14	
Chloroform	ug/L	ND	0.50	11/25/20 22:14	
Chloromethane	ug/L	ND	1.0	11/25/20 22:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Dibromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Dibromomethane	ug/L	ND	0.50	11/25/20 22:14	
Dichlorodifluoromethane	ug/L	ND	0.50	11/25/20 22:14	
Diisopropyl ether	ug/L	ND	0.50	11/25/20 22:14	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508014001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/25/20 22:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/25/20 22:14	
m&p-Xylene	ug/L	ND	1.0	11/25/20 22:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/25/20 22:14	
Methylene Chloride	ug/L	ND	2.0	11/25/20 22:14	
n-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
n-Propylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Naphthalene	ug/L	ND	2.0	11/25/20 22:14	
o-Xylene	ug/L	ND	0.50	11/25/20 22:14	
sec-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Styrene	ug/L	ND	0.50	11/25/20 22:14	
tert-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Tetrachloroethene	ug/L	ND	0.50	11/25/20 22:14	
Toluene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Trichloroethene	ug/L	ND	0.50	11/25/20 22:14	
Trichlorofluoromethane	ug/L	ND	1.0	11/25/20 22:14	
Vinyl chloride	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/25/20 22:14	
4-Bromofluorobenzene (S)	%	95	70-130	11/25/20 22:14	
Toluene-d8 (S)	%	102	70-130	11/25/20 22:14	

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	60-140	
1,1,1-Trichloroethane	ug/L	50	45.7	91	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	42.7	85	60-140	
1,1,2-Trichloroethane	ug/L	50	46.2	92	60-140	
1,1-Dichloroethane	ug/L	50	46.7	93	60-140	
1,1-Dichloroethene	ug/L	50	44.2	88	60-140	
1,1-Dichloropropene	ug/L	50	48.4	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.6	97	60-140	
1,2,3-Trichloropropane	ug/L	50	40.2	80	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.2	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	49.2	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	39.8	80	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,3-Dichloropropane	ug/L	50	52.0	104	60-140	
1,4-Dichlorobenzene	ug/L	50	47.3	95	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	41.3	83	60-140	
4-Chlorotoluene	ug/L	50	41.5	83	60-140	
Benzene	ug/L	50	46.2	92	60-140	
Bromobenzene	ug/L	50	47.1	94	60-140	
Bromochloromethane	ug/L	50	48.4	97	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	45.4	91	60-140	
Bromomethane	ug/L	50	49.8	100	60-140	
Carbon tetrachloride	ug/L	50	43.2	86	60-140	
Chlorobenzene	ug/L	50	46.3	93	60-140	
Chloroethane	ug/L	50	40.1	80	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	39.6	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	46.9	94	60-140	
Dichlorodifluoromethane	ug/L	50	42.7	85	60-140	
Diisopropyl ether	ug/L	50	44.3	89	60-140	
Ethylbenzene	ug/L	50	45.2	90	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	60-140	
m&p-Xylene	ug/L	100	96.7	97	60-140	
Methyl-tert-butyl ether	ug/L	50	46.7	93	60-140	
Methylene Chloride	ug/L	50	42.4	85	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	45.0	90	60-140	
Naphthalene	ug/L	50	45.6	91	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	47.3	95	60-140	
Styrene	ug/L	50	47.2	94	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	47.3	95	60-140	
Toluene	ug/L	50	45.2	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.5	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.5	81	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.0	24.7	120	123	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.3	18.6	101	93	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.8	19.6	104	98	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	23.5	24.1	118	121	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	24.9	24.7	124	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	25.1	122	125	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.9	18.8	99	94	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.9	18.4	94	92	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.8	18.4	99	92	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.1	19.0	95	95	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.3	22.2	111	111	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	21.0	106	105	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	18.7	98	94	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.9	20.9	105	105	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	22.4	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	19.8	101	99	60-140	2	
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	20.3	19.4	101	97	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	23.8	24.1	119	120	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.9	19.9	104	100	60-140	5	
4-Chlorotoluene	ug/L	ND	20	20	20.2	19.6	101	98	60-140	3	
Benzene	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0	
Bromobenzene	ug/L	ND	20	20	20.6	20.2	103	101	60-140	2	
Bromochloromethane	ug/L	ND	20	20	23.9	23.5	120	118	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.9	20.8	105	104	60-140	1	
Bromoform	ug/L	ND	20	20	20.6	19.8	103	99	60-140	4	
Bromomethane	ug/L	ND	20	20	26.3	28.2	132	141	60-140	7	M1
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.5	113	112	60-140	0	
Chlorobenzene	ug/L	ND	20	20	20.9	20.3	104	102	60-140	3	
Chloroethane	ug/L	ND	20	20	23.3	23.7	116	119	60-140	2	
Chloroform	ug/L	ND	20	20	23.7	23.9	118	120	60-140	1	
Chloromethane	ug/L	ND	20	20	21.8	22.0	109	110	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.6	21.5	113	107	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	22.7	23.7	113	119	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	20.1	20.6	101	103	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	22.0	22.7	110	113	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.9	20.2	105	101	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	22.5	108	113	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	19.6	107	98	60-140	8	
m&p-Xylene	ug/L	ND	40	40	41.2	39.3	103	98	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.6	23.3	113	116	60-140	3	
Methylene Chloride	ug/L	ND	20	20	21.5	22.4	107	112	60-140	4	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.1	19.4	101	97	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	6	
Naphthalene	ug/L	ND	20	20	19.9	19.1	99	96	60-140	4	
o-Xylene	ug/L	ND	20	20	21.2	19.5	106	98	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	3	
Styrene	ug/L	ND	20	20	20.9	18.7	104	94	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.8	90	89	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	21.1	22.0	106	110	60-140	4	
Toluene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.3	24.5	122	123	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.0	19.9	105	100	60-140	5	
Trichloroethene	ug/L	ND	20	20	22.3	21.9	111	110	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	23.4	23.3	117	117	60-140	0	
Vinyl chloride	ug/L	ND	20	20	22.9	23.5	115	117	60-140	2	
1,2-Dichloroethane-d4 (S)	%						105	108	70-130		
4-Bromofluorobenzene (S)	%						99	94	70-130		
Toluene-d8 (S)	%						101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508014

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508014001	**13926B_HC_RD_20201124**	MADEPV	1584890	MADEP VPH	1584890
92508014001	**13926B_HC_RD_20201124**	EPA 3010A	583174	EPA 6010D	583303
92508014001	**13926B_HC_RD_20201124**	SM 6200B	583032		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical™

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

LAB USE O **WO# : 92508014**

92508014

ber or

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 13926 B Huntersville Concord Rd
Customer Project Name/Number: 2020-LI-2448 Incident	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fritz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fritz	Turnaround Date Required: ASAP 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)

Container P. ... 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 _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 6 2008	MADEP VPH	Lead	Lab Profile/Line: Lab Sample # / Comments
13926B-HC-SD-20201124	DW	G	11-24-20	0935				8	X	X	X	92508014 001

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)
Sample pH Acceptable	(Y)	N	NA
Sulfide Present	Y	N	(NA)

Cl Strips: _____
pH Strips: _____
Lead Acetate Strips: _____

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap / ziplocs

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

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

Lab Tracking #: 2560538

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92106H
Cooler 1 Temp Upon Receipt: 1.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fritz / Apex	11-24-20 1410	LDH PACE HVL	11/24/20 1513
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

***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#: 92508014**

PM: AMB Due Date: 11/25/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 24, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508017001	**13835_AC_RD_20201124**	MADEP VPH	JAH	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

Sample: 13835_AC_RD_20201124 **Lab ID: 92508017001** Collected: 11/24/20 12:30 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/02/20 07:11	12/02/20 07:11		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/02/20 07:11	12/02/20 07:11		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/02/20 07:11	12/02/20 07:11	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/02/20 07:11	12/02/20 07:11	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.3	%	70.0-130	1	12/02/20 07:11	12/02/20 07:11	615-59-8FID	
2,5-Dibromotoluene (PID)	89.4	%	70.0-130	1	12/02/20 07:11	12/02/20 07:11	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	11/30/20 10:55	12/04/20 00:15	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/26/20 00:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/26/20 00:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/26/20 00:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/26/20 00:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/26/20 00:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/26/20 00:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/26/20 00:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/26/20 00:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/26/20 00:19	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/26/20 00:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/26/20 00:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/26/20 00:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/26/20 00:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/26/20 00:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/26/20 00:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/26/20 00:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/26/20 00:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/26/20 00:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/26/20 00:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/26/20 00:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:19	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

Sample: 13835_AC_RD_20201124 **Lab ID: 92508017001** Collected: 11/24/20 12:30 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:19	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/26/20 00:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/26/20 00:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/26/20 00:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/26/20 00:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/26/20 00:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/26/20 00:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/26/20 00:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/26/20 00:19	103-65-1	
Styrene	ND	ug/L	0.50	1		11/26/20 00:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/26/20 00:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/26/20 00:19	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/26/20 00:19	127-18-4	
Toluene	ND	ug/L	0.50	1		11/26/20 00:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/26/20 00:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/26/20 00:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/26/20 00:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/26/20 00:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/26/20 00:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/26/20 00:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/26/20 00:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/26/20 00:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/26/20 00:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/26/20 00:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/26/20 00:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/26/20 00:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/26/20 00:19	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/26/20 00:19	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		11/26/20 00:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

QC Batch: 1584890
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508017001

METHOD BLANK: R3599477-3 Matrix: Water
Associated Lab Samples: 92508017001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/01/20 20:01	
Aliphatic (C09-C12)	ug/L	ND	100	12/01/20 20:01	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/01/20 20:01	
Total VPH	ug/L	ND	100	12/01/20 20:01	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	12/01/20 20:01	
2,5-Dibromotoluene (PID)	%	94.3	70.0-130	12/01/20 20:01	

LABORATORY CONTROL SAMPLE & LCSD: R3599477-1 R3599477-2

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	1210	104	101	70.0-130	3.25	25	
Aliphatic (C09-C12)	ug/L	1400	1410	1340	101	95.7	70.0-130	5.09	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	187	93.0	93.5	70.0-130	0.536	25	
Total VPH	ug/L	2800	2850	2740	102	97.9	70.0-130	3.94	25	
2,5-Dibromotoluene (FID)	%				93.3	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	96.1	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

QC Batch: 583174
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508017001

METHOD BLANK: 3083588 Matrix: Water
Associated Lab Samples: 92508017001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/03/20 23:39	

LABORATORY CONTROL SAMPLE: 3083589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083590 3083591

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	261	258	102	102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

QC Batch: 583032
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508017001

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508017001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
2,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
2-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
4-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
Benzene	ug/L	ND	0.50	11/25/20 22:14	
Bromobenzene	ug/L	ND	0.50	11/25/20 22:14	
Bromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromodichloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromoform	ug/L	ND	0.50	11/25/20 22:14	
Bromomethane	ug/L	ND	5.0	11/25/20 22:14	
Carbon tetrachloride	ug/L	ND	0.50	11/25/20 22:14	
Chlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
Chloroethane	ug/L	ND	1.0	11/25/20 22:14	
Chloroform	ug/L	ND	0.50	11/25/20 22:14	
Chloromethane	ug/L	ND	1.0	11/25/20 22:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Dibromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Dibromomethane	ug/L	ND	0.50	11/25/20 22:14	
Dichlorodifluoromethane	ug/L	ND	0.50	11/25/20 22:14	
Diisopropyl ether	ug/L	ND	0.50	11/25/20 22:14	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508017001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/25/20 22:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/25/20 22:14	
m&p-Xylene	ug/L	ND	1.0	11/25/20 22:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/25/20 22:14	
Methylene Chloride	ug/L	ND	2.0	11/25/20 22:14	
n-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
n-Propylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Naphthalene	ug/L	ND	2.0	11/25/20 22:14	
o-Xylene	ug/L	ND	0.50	11/25/20 22:14	
sec-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Styrene	ug/L	ND	0.50	11/25/20 22:14	
tert-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Tetrachloroethene	ug/L	ND	0.50	11/25/20 22:14	
Toluene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Trichloroethene	ug/L	ND	0.50	11/25/20 22:14	
Trichlorofluoromethane	ug/L	ND	1.0	11/25/20 22:14	
Vinyl chloride	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/25/20 22:14	
4-Bromofluorobenzene (S)	%	95	70-130	11/25/20 22:14	
Toluene-d8 (S)	%	102	70-130	11/25/20 22:14	

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	60-140	
1,1,1-Trichloroethane	ug/L	50	45.7	91	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	42.7	85	60-140	
1,1,2-Trichloroethane	ug/L	50	46.2	92	60-140	
1,1-Dichloroethane	ug/L	50	46.7	93	60-140	
1,1-Dichloroethene	ug/L	50	44.2	88	60-140	
1,1-Dichloropropene	ug/L	50	48.4	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.6	97	60-140	
1,2,3-Trichloropropane	ug/L	50	40.2	80	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.2	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	49.2	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	39.8	80	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,3-Dichloropropane	ug/L	50	52.0	104	60-140	
1,4-Dichlorobenzene	ug/L	50	47.3	95	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	41.3	83	60-140	
4-Chlorotoluene	ug/L	50	41.5	83	60-140	
Benzene	ug/L	50	46.2	92	60-140	
Bromobenzene	ug/L	50	47.1	94	60-140	
Bromochloromethane	ug/L	50	48.4	97	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	45.4	91	60-140	
Bromomethane	ug/L	50	49.8	100	60-140	
Carbon tetrachloride	ug/L	50	43.2	86	60-140	
Chlorobenzene	ug/L	50	46.3	93	60-140	
Chloroethane	ug/L	50	40.1	80	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	39.6	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	46.9	94	60-140	
Dichlorodifluoromethane	ug/L	50	42.7	85	60-140	
Diisopropyl ether	ug/L	50	44.3	89	60-140	
Ethylbenzene	ug/L	50	45.2	90	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	60-140	
m&p-Xylene	ug/L	100	96.7	97	60-140	
Methyl-tert-butyl ether	ug/L	50	46.7	93	60-140	
Methylene Chloride	ug/L	50	42.4	85	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	45.0	90	60-140	
Naphthalene	ug/L	50	45.6	91	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	47.3	95	60-140	
Styrene	ug/L	50	47.2	94	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	47.3	95	60-140	
Toluene	ug/L	50	45.2	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.5	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.5	81	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.0	24.7	120	123	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.3	18.6	101	93	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.8	19.6	104	98	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	23.5	24.1	118	121	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	24.9	24.7	124	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	25.1	122	125	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.9	18.8	99	94	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.9	18.4	94	92	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.8	18.4	99	92	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.1	19.0	95	95	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.3	22.2	111	111	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	21.0	106	105	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	18.7	98	94	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.9	20.9	105	105	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	22.4	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	19.8	101	99	60-140	2	
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	20.3	19.4	101	97	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	23.8	24.1	119	120	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.9	19.9	104	100	60-140	5	
4-Chlorotoluene	ug/L	ND	20	20	20.2	19.6	101	98	60-140	3	
Benzene	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0	
Bromobenzene	ug/L	ND	20	20	20.6	20.2	103	101	60-140	2	
Bromochloromethane	ug/L	ND	20	20	23.9	23.5	120	118	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.9	20.8	105	104	60-140	1	
Bromoform	ug/L	ND	20	20	20.6	19.8	103	99	60-140	4	
Bromomethane	ug/L	ND	20	20	26.3	28.2	132	141	60-140	7	M1
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.5	113	112	60-140	0	
Chlorobenzene	ug/L	ND	20	20	20.9	20.3	104	102	60-140	3	
Chloroethane	ug/L	ND	20	20	23.3	23.7	116	119	60-140	2	
Chloroform	ug/L	ND	20	20	23.7	23.9	118	120	60-140	1	
Chloromethane	ug/L	ND	20	20	21.8	22.0	109	110	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.6	21.5	113	107	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	22.7	23.7	113	119	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	20.1	20.6	101	103	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	22.0	22.7	110	113	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.9	20.2	105	101	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	22.5	108	113	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	19.6	107	98	60-140	8	
m&p-Xylene	ug/L	ND	40	40	41.2	39.3	103	98	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.6	23.3	113	116	60-140	3	
Methylene Chloride	ug/L	ND	20	20	21.5	22.4	107	112	60-140	4	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.1	19.4	101	97	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	6	
Naphthalene	ug/L	ND	20	20	19.9	19.1	99	96	60-140	4	
o-Xylene	ug/L	ND	20	20	21.2	19.5	106	98	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	3	
Styrene	ug/L	ND	20	20	20.9	18.7	104	94	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.8	90	89	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	21.1	22.0	106	110	60-140	4	
Toluene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.3	24.5	122	123	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.0	19.9	105	100	60-140	5	
Trichloroethene	ug/L	ND	20	20	22.3	21.9	111	110	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	23.4	23.3	117	117	60-140	0	
Vinyl chloride	ug/L	ND	20	20	22.9	23.5	115	117	60-140	2	
1,2-Dichloroethane-d4 (S)	%						105	108	70-130		
4-Bromofluorobenzene (S)	%						99	94	70-130		
Toluene-d8 (S)	%						101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508017

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508017001	**13835_AC_RD_20201124**	MADEPV	1584890	MADEP VPH	1584890
92508017001	**13835_AC_RD_20201124**	EPA 3010A	583174	EPA 6010D	583303
92508017001	**13835_AC_RD_20201124**	SM 6200B	583032		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ON **WO# : 92508017**

92508017

er or

Company: Apex Companies

Billing Information:

Address:

Report To: Andrew Street

Email To: Andrew.Street@apexcos.com

Copy To:

Site Collection Info/Address: 13335 Asbury Chapel Rd

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

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

Phone:

Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Naomi Fretz

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature): Naomi F

Turnaround Date Required: ASAP

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)

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: VOCs 6200B; MADEP VPH; Lead

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead
13335_ACRD_20201124	DW	G	11-24-20	1230				8	X	X	X

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: _____	
Sulfide Present	Y N (NA)
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

92508017
001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap zip loc

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

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

Lab Tracking #: 2560520

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: T210 64
Cooler 1 Temp Upon Receipt: 1.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	11/24/20 1410	LDH PACE HVL	11/24/20 1413
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

***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# : 92508017**

PM: AMB Due Date: 11/25/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 24, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508021001	**DUP-1**	MADEP VPH	JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508021002	**FB-1**	MADEP VPH	JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508021003	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

Sample: DUP-1 **Lab ID: 92508021001** Collected: 11/24/20 00:00 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/02/20 08:51	12/02/20 08:51		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/02/20 08:51	12/02/20 08:51		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/02/20 08:51	12/02/20 08:51	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/02/20 08:51	12/02/20 08:51	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.8	%	70.0-130	1	12/02/20 08:51	12/02/20 08:51	615-59-8FID	
2,5-Dibromotoluene (PID)	88.7	%	70.0-130	1	12/02/20 08:51	12/02/20 08:51	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	11/30/20 10:55	12/04/20 00:18	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/26/20 00:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/26/20 00:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/26/20 00:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/26/20 00:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/26/20 00:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/26/20 00:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/26/20 00:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/26/20 00:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/26/20 00:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/26/20 00:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/26/20 00:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/26/20 00:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/26/20 00:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/26/20 00:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/26/20 00:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/26/20 00:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/26/20 00:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/26/20 00:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/26/20 00:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/26/20 00:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:37	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

Sample: DUP-1 **Lab ID: 92508021001** Collected: 11/24/20 00:00 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/26/20 00:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/26/20 00:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/26/20 00:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/26/20 00:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/26/20 00:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/26/20 00:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/26/20 00:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/26/20 00:37	103-65-1	
Styrene	ND	ug/L	0.50	1		11/26/20 00:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/26/20 00:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/26/20 00:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/26/20 00:37	127-18-4	
Toluene	ND	ug/L	0.50	1		11/26/20 00:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/26/20 00:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/26/20 00:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/26/20 00:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/26/20 00:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/26/20 00:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/26/20 00:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/26/20 00:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/26/20 00:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/26/20 00:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/26/20 00:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/26/20 00:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/26/20 00:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		11/26/20 00:37	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		11/26/20 00:37	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		11/26/20 00:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

Sample: FB-1 **Lab ID: 92508021002** Collected: 11/24/20 00:00 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/01/20 20:35	12/01/20 20:35		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/01/20 20:35	12/01/20 20:35		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/01/20 20:35	12/01/20 20:35	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/01/20 20:35	12/01/20 20:35	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.0	%	70.0-130	1	12/01/20 20:35	12/01/20 20:35	615-59-8FID	
2,5-Dibromotoluene (PID)	90.7	%	70.0-130	1	12/01/20 20:35	12/01/20 20:35	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	11/30/20 10:55	12/04/20 00:21	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/25/20 22:32	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/25/20 22:32	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/25/20 22:32	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/25/20 22:32	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/25/20 22:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/25/20 22:32	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/25/20 22:32	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/25/20 22:32	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/25/20 22:32	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/25/20 22:32	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/25/20 22:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/25/20 22:32	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/25/20 22:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/20 22:32	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/25/20 22:32	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/25/20 22:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/25/20 22:32	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/25/20 22:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/25/20 22:32	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/25/20 22:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 22:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 22:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 22:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/25/20 22:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/25/20 22:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/25/20 22:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/25/20 22:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/25/20 22:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/25/20 22:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/25/20 22:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/25/20 22:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/25/20 22:32	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

Sample: FB-1 **Lab ID: 92508021002** Collected: 11/24/20 00:00 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/25/20 22:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/25/20 22:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/25/20 22:32	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/25/20 22:32	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/25/20 22:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/25/20 22:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/25/20 22:32	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/25/20 22:32	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/25/20 22:32	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/25/20 22:32	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/25/20 22:32	103-65-1	
Styrene	ND	ug/L	0.50	1		11/25/20 22:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/25/20 22:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/25/20 22:32	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/25/20 22:32	127-18-4	
Toluene	ND	ug/L	0.50	1		11/25/20 22:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/25/20 22:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/25/20 22:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/25/20 22:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/25/20 22:32	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/25/20 22:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/25/20 22:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/25/20 22:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/25/20 22:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/25/20 22:32	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/25/20 22:32	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/25/20 22:32	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/25/20 22:32	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		11/25/20 22:32	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		11/25/20 22:32	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		11/25/20 22:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

Sample: Trip Blank **Lab ID: 92508021003** Collected: 11/24/20 00:00 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/25/20 22:50	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/25/20 22:50	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/25/20 22:50	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/25/20 22:50	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/25/20 22:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/25/20 22:50	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/25/20 22:50	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/25/20 22:50	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/25/20 22:50	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/25/20 22:50	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/25/20 22:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/25/20 22:50	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/25/20 22:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/20 22:50	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/25/20 22:50	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/25/20 22:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/25/20 22:50	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/25/20 22:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/25/20 22:50	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/25/20 22:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 22:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 22:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/25/20 22:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/25/20 22:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/25/20 22:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/25/20 22:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/25/20 22:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/25/20 22:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/25/20 22:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/25/20 22:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/25/20 22:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/25/20 22:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		11/25/20 22:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/25/20 22:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/25/20 22:50	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/25/20 22:50	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/25/20 22:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/25/20 22:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/25/20 22:50	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/25/20 22:50	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/25/20 22:50	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/25/20 22:50	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/25/20 22:50	103-65-1	
Styrene	ND	ug/L	0.50	1		11/25/20 22:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/25/20 22:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/25/20 22:50	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

Sample: Trip Blank **Lab ID: 92508021003** Collected: 11/24/20 00:00 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		11/25/20 22:50	127-18-4	
Toluene	ND	ug/L	0.50	1		11/25/20 22:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/25/20 22:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/25/20 22:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/25/20 22:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/25/20 22:50	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/25/20 22:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/25/20 22:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/25/20 22:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/25/20 22:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/25/20 22:50	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/25/20 22:50	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/25/20 22:50	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/25/20 22:50	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/25/20 22:50	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		11/25/20 22:50	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		11/25/20 22:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

QC Batch: 1584890
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508021001, 92508021002

METHOD BLANK: R3599477-3 Matrix: Water
Associated Lab Samples: 92508021001, 92508021002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/01/20 20:01	
Aliphatic (C09-C12)	ug/L	ND	100	12/01/20 20:01	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/01/20 20:01	
Total VPH	ug/L	ND	100	12/01/20 20:01	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	12/01/20 20:01	
2,5-Dibromotoluene (PID)	%	94.3	70.0-130	12/01/20 20:01	

LABORATORY CONTROL SAMPLE & LCSD: R3599477-1 R3599477-2

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	1210	104	101	70.0-130	3.25	25	
Aliphatic (C09-C12)	ug/L	1400	1410	1340	101	95.7	70.0-130	5.09	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	187	93.0	93.5	70.0-130	0.536	25	
Total VPH	ug/L	2800	2850	2740	102	97.9	70.0-130	3.94	25	
2,5-Dibromotoluene (FID)	%				93.3	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	96.1	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

QC Batch: 583174
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92508021001, 92508021002

METHOD BLANK: 3083588 Matrix: Water
Associated Lab Samples: 92508021001, 92508021002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/03/20 23:39	

LABORATORY CONTROL SAMPLE: 3083589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083590 3083591

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	261	258	102	102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

QC Batch: 583032 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92508021001, 92508021002, 92508021003

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508021001, 92508021002, 92508021003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
2,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
2-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
4-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
Benzene	ug/L	ND	0.50	11/25/20 22:14	
Bromobenzene	ug/L	ND	0.50	11/25/20 22:14	
Bromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromodichloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromoform	ug/L	ND	0.50	11/25/20 22:14	
Bromomethane	ug/L	ND	5.0	11/25/20 22:14	
Carbon tetrachloride	ug/L	ND	0.50	11/25/20 22:14	
Chlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
Chloroethane	ug/L	ND	1.0	11/25/20 22:14	
Chloroform	ug/L	ND	0.50	11/25/20 22:14	
Chloromethane	ug/L	ND	1.0	11/25/20 22:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Dibromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Dibromomethane	ug/L	ND	0.50	11/25/20 22:14	
Dichlorodifluoromethane	ug/L	ND	0.50	11/25/20 22:14	
Diisopropyl ether	ug/L	ND	0.50	11/25/20 22:14	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508021001, 92508021002, 92508021003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/25/20 22:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/25/20 22:14	
m&p-Xylene	ug/L	ND	1.0	11/25/20 22:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/25/20 22:14	
Methylene Chloride	ug/L	ND	2.0	11/25/20 22:14	
n-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
n-Propylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Naphthalene	ug/L	ND	2.0	11/25/20 22:14	
o-Xylene	ug/L	ND	0.50	11/25/20 22:14	
sec-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Styrene	ug/L	ND	0.50	11/25/20 22:14	
tert-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Tetrachloroethene	ug/L	ND	0.50	11/25/20 22:14	
Toluene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Trichloroethene	ug/L	ND	0.50	11/25/20 22:14	
Trichlorofluoromethane	ug/L	ND	1.0	11/25/20 22:14	
Vinyl chloride	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/25/20 22:14	
4-Bromofluorobenzene (S)	%	95	70-130	11/25/20 22:14	
Toluene-d8 (S)	%	102	70-130	11/25/20 22:14	

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	60-140	
1,1,1-Trichloroethane	ug/L	50	45.7	91	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	42.7	85	60-140	
1,1,2-Trichloroethane	ug/L	50	46.2	92	60-140	
1,1-Dichloroethane	ug/L	50	46.7	93	60-140	
1,1-Dichloroethene	ug/L	50	44.2	88	60-140	
1,1-Dichloropropene	ug/L	50	48.4	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.6	97	60-140	
1,2,3-Trichloropropane	ug/L	50	40.2	80	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.2	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	49.2	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	39.8	80	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,3-Dichloropropane	ug/L	50	52.0	104	60-140	
1,4-Dichlorobenzene	ug/L	50	47.3	95	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	41.3	83	60-140	
4-Chlorotoluene	ug/L	50	41.5	83	60-140	
Benzene	ug/L	50	46.2	92	60-140	
Bromobenzene	ug/L	50	47.1	94	60-140	
Bromochloromethane	ug/L	50	48.4	97	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	45.4	91	60-140	
Bromomethane	ug/L	50	49.8	100	60-140	
Carbon tetrachloride	ug/L	50	43.2	86	60-140	
Chlorobenzene	ug/L	50	46.3	93	60-140	
Chloroethane	ug/L	50	40.1	80	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	39.6	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	46.9	94	60-140	
Dichlorodifluoromethane	ug/L	50	42.7	85	60-140	
Diisopropyl ether	ug/L	50	44.3	89	60-140	
Ethylbenzene	ug/L	50	45.2	90	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	60-140	
m&p-Xylene	ug/L	100	96.7	97	60-140	
Methyl-tert-butyl ether	ug/L	50	46.7	93	60-140	
Methylene Chloride	ug/L	50	42.4	85	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	45.0	90	60-140	
Naphthalene	ug/L	50	45.6	91	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	47.3	95	60-140	
Styrene	ug/L	50	47.2	94	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	47.3	95	60-140	
Toluene	ug/L	50	45.2	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.5	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.5	81	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.0	24.7	120	123	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.3	18.6	101	93	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.8	19.6	104	98	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	23.5	24.1	118	121	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	24.9	24.7	124	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	25.1	122	125	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.9	18.8	99	94	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.9	18.4	94	92	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.8	18.4	99	92	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.1	19.0	95	95	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.3	22.2	111	111	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	21.0	106	105	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	18.7	98	94	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.9	20.9	105	105	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	22.4	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	19.8	101	99	60-140	2	
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	20.3	19.4	101	97	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	23.8	24.1	119	120	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.9	19.9	104	100	60-140	5	
4-Chlorotoluene	ug/L	ND	20	20	20.2	19.6	101	98	60-140	3	
Benzene	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0	
Bromobenzene	ug/L	ND	20	20	20.6	20.2	103	101	60-140	2	
Bromochloromethane	ug/L	ND	20	20	23.9	23.5	120	118	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.9	20.8	105	104	60-140	1	
Bromoform	ug/L	ND	20	20	20.6	19.8	103	99	60-140	4	
Bromomethane	ug/L	ND	20	20	26.3	28.2	132	141	60-140	7	M1
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.5	113	112	60-140	0	
Chlorobenzene	ug/L	ND	20	20	20.9	20.3	104	102	60-140	3	
Chloroethane	ug/L	ND	20	20	23.3	23.7	116	119	60-140	2	
Chloroform	ug/L	ND	20	20	23.7	23.9	118	120	60-140	1	
Chloromethane	ug/L	ND	20	20	21.8	22.0	109	110	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.6	21.5	113	107	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	22.7	23.7	113	119	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	20.1	20.6	101	103	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	22.0	22.7	110	113	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.9	20.2	105	101	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	22.5	108	113	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	19.6	107	98	60-140	8	
m&p-Xylene	ug/L	ND	40	40	41.2	39.3	103	98	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.6	23.3	113	116	60-140	3	
Methylene Chloride	ug/L	ND	20	20	21.5	22.4	107	112	60-140	4	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.1	19.4	101	97	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	6	
Naphthalene	ug/L	ND	20	20	19.9	19.1	99	96	60-140	4	
o-Xylene	ug/L	ND	20	20	21.2	19.5	106	98	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	3	
Styrene	ug/L	ND	20	20	20.9	18.7	104	94	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.8	90	89	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	21.1	22.0	106	110	60-140	4	
Toluene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.3	24.5	122	123	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.0	19.9	105	100	60-140	5	
Trichloroethene	ug/L	ND	20	20	22.3	21.9	111	110	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	23.4	23.3	117	117	60-140	0	
Vinyl chloride	ug/L	ND	20	20	22.9	23.5	115	117	60-140	2	
1,2-Dichloroethane-d4 (S)	%						105	108	70-130		
4-Bromofluorobenzene (S)	%						99	94	70-130		
Toluene-d8 (S)	%						101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508021

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508021001	**DUP-1**	MADEPV	1584890	MADEP VPH	1584890
92508021002	**FB-1**	MADEPV	1584890	MADEP VPH	1584890
92508021001	**DUP-1**	EPA 3010A	583174	EPA 6010D	583303
92508021002	**FB-1**	EPA 3010A	583174	EPA 6010D	583303
92508021001	**DUP-1**	SM 6200B	583032		
92508021002	**FB-1**	SM 6200B	583032		
92508021003	**Trip Blank**	SM 6200B	583032		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ... Number or

WO# : 92508021

92508021

Company: Apex Companies
Address:
Billing Information:

Report To: Andrew Street
Copy To:
Email To: Andrew.Street@apexcos.com
Site Collection Info/Address:

Customer Project Name/Number: 2020-U-2448 Incident
State: NC / County/City: Huntersville / Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone:
Email:
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Naomi Fretz
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:

Collected By (signature): Naomi Fretz
Turnaround Date Required: ASAP
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)

Contain... 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 ____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead	Lab Sample # / Comments
												92508021
DUP-1	DW	G	11-24-20	-				8	X	X	X	001
FB-1	OT	G	11-24-20	-				8	X	X	X	002
Trip Blank	OT	G	11-24-20	-				2	X			003

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: ____
- Sulfide Present Y N (NA)
- Lead Acetate Strips: ____

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None
Packing Material Used: bubble wrap / ziploc
Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2560516
Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 1.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	11-24-20 1410	LDH PACE HVL	11/24/20 1413

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

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.**

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

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

Project # **WO# : 92508021**

PM: AMB Due Date: 11/25/20

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)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1						1										7													
2						1										7													
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 24, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508024001	**13800_HC_RD_20201124**	MADEP VPH	JAH	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

Sample: 13800_HC_RD_20201124 **Lab ID: 92508024001** Collected: 11/24/20 09:00 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/02/20 07:44	12/02/20 07:44		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/02/20 07:44	12/02/20 07:44		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/02/20 07:44	12/02/20 07:44	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/02/20 07:44	12/02/20 07:44	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.7	%	70.0-130	1	12/02/20 07:44	12/02/20 07:44	615-59-8FID	
2,5-Dibromotoluene (PID)	90.8	%	70.0-130	1	12/02/20 07:44	12/02/20 07:44	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	11/30/20 10:55	12/04/20 00:25	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/26/20 00:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/26/20 00:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/26/20 00:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/26/20 00:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/26/20 00:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/26/20 00:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/26/20 00:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/26/20 00:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/26/20 00:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/26/20 00:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/26/20 00:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/26/20 00:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/26/20 00:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/26/20 00:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/26/20 00:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/26/20 00:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/26/20 00:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/26/20 00:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 00:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/26/20 00:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/26/20 00:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/26/20 00:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/26/20 00:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/26/20 00:55	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

Sample: 13800_HC_RD_20201124 **Lab ID: 92508024001** Collected: 11/24/20 09:00 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/26/20 00:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/26/20 00:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/26/20 00:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/26/20 00:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/26/20 00:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/26/20 00:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/26/20 00:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/26/20 00:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/26/20 00:55	103-65-1	
Styrene	ND	ug/L	0.50	1		11/26/20 00:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/26/20 00:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/26/20 00:55	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/26/20 00:55	127-18-4	
Toluene	ND	ug/L	0.50	1		11/26/20 00:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/26/20 00:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/26/20 00:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/26/20 00:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/26/20 00:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/26/20 00:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/26/20 00:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/26/20 00:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/26/20 00:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/26/20 00:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/26/20 00:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/26/20 00:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/26/20 00:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		11/26/20 00:55	17060-07-0	
4-Bromofluorobenzene (S)	92	%	70-130	1		11/26/20 00:55	460-00-4	
Toluene-d8 (S)	112	%	70-130	1		11/26/20 00:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

QC Batch: 1584890
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508024001

METHOD BLANK: R3599477-3 Matrix: Water
Associated Lab Samples: 92508024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/01/20 20:01	
Aliphatic (C09-C12)	ug/L	ND	100	12/01/20 20:01	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/01/20 20:01	
Total VPH	ug/L	ND	100	12/01/20 20:01	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	12/01/20 20:01	
2,5-Dibromotoluene (PID)	%	94.3	70.0-130	12/01/20 20:01	

LABORATORY CONTROL SAMPLE & LCSD: R3599477-1 R3599477-2

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	1210	104	101	70.0-130	3.25	25	
Aliphatic (C09-C12)	ug/L	1400	1410	1340	101	95.7	70.0-130	5.09	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	187	93.0	93.5	70.0-130	0.536	25	
Total VPH	ug/L	2800	2850	2740	102	97.9	70.0-130	3.94	25	
2,5-Dibromotoluene (FID)	%				93.3	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	96.1	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

QC Batch: 583174
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508024001

METHOD BLANK: 3083588 Matrix: Water
Associated Lab Samples: 92508024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/03/20 23:39	

LABORATORY CONTROL SAMPLE: 3083589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083590 3083591

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	261	258	102	102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

QC Batch: 583032
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508024001

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
2,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
2-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
4-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
Benzene	ug/L	ND	0.50	11/25/20 22:14	
Bromobenzene	ug/L	ND	0.50	11/25/20 22:14	
Bromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromodichloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromoform	ug/L	ND	0.50	11/25/20 22:14	
Bromomethane	ug/L	ND	5.0	11/25/20 22:14	
Carbon tetrachloride	ug/L	ND	0.50	11/25/20 22:14	
Chlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
Chloroethane	ug/L	ND	1.0	11/25/20 22:14	
Chloroform	ug/L	ND	0.50	11/25/20 22:14	
Chloromethane	ug/L	ND	1.0	11/25/20 22:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Dibromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Dibromomethane	ug/L	ND	0.50	11/25/20 22:14	
Dichlorodifluoromethane	ug/L	ND	0.50	11/25/20 22:14	
Diisopropyl ether	ug/L	ND	0.50	11/25/20 22:14	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/25/20 22:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/25/20 22:14	
m&p-Xylene	ug/L	ND	1.0	11/25/20 22:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/25/20 22:14	
Methylene Chloride	ug/L	ND	2.0	11/25/20 22:14	
n-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
n-Propylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Naphthalene	ug/L	ND	2.0	11/25/20 22:14	
o-Xylene	ug/L	ND	0.50	11/25/20 22:14	
sec-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Styrene	ug/L	ND	0.50	11/25/20 22:14	
tert-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Tetrachloroethene	ug/L	ND	0.50	11/25/20 22:14	
Toluene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Trichloroethene	ug/L	ND	0.50	11/25/20 22:14	
Trichlorofluoromethane	ug/L	ND	1.0	11/25/20 22:14	
Vinyl chloride	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/25/20 22:14	
4-Bromofluorobenzene (S)	%	95	70-130	11/25/20 22:14	
Toluene-d8 (S)	%	102	70-130	11/25/20 22:14	

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	60-140	
1,1,1-Trichloroethane	ug/L	50	45.7	91	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	42.7	85	60-140	
1,1,2-Trichloroethane	ug/L	50	46.2	92	60-140	
1,1-Dichloroethane	ug/L	50	46.7	93	60-140	
1,1-Dichloroethene	ug/L	50	44.2	88	60-140	
1,1-Dichloropropene	ug/L	50	48.4	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.6	97	60-140	
1,2,3-Trichloropropane	ug/L	50	40.2	80	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.2	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	49.2	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	39.8	80	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,3-Dichloropropane	ug/L	50	52.0	104	60-140	
1,4-Dichlorobenzene	ug/L	50	47.3	95	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	41.3	83	60-140	
4-Chlorotoluene	ug/L	50	41.5	83	60-140	
Benzene	ug/L	50	46.2	92	60-140	
Bromobenzene	ug/L	50	47.1	94	60-140	
Bromochloromethane	ug/L	50	48.4	97	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	45.4	91	60-140	
Bromomethane	ug/L	50	49.8	100	60-140	
Carbon tetrachloride	ug/L	50	43.2	86	60-140	
Chlorobenzene	ug/L	50	46.3	93	60-140	
Chloroethane	ug/L	50	40.1	80	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	39.6	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	46.9	94	60-140	
Dichlorodifluoromethane	ug/L	50	42.7	85	60-140	
Diisopropyl ether	ug/L	50	44.3	89	60-140	
Ethylbenzene	ug/L	50	45.2	90	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	60-140	
m&p-Xylene	ug/L	100	96.7	97	60-140	
Methyl-tert-butyl ether	ug/L	50	46.7	93	60-140	
Methylene Chloride	ug/L	50	42.4	85	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	45.0	90	60-140	
Naphthalene	ug/L	50	45.6	91	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	47.3	95	60-140	
Styrene	ug/L	50	47.2	94	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	47.3	95	60-140	
Toluene	ug/L	50	45.2	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.5	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.5	81	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.0	24.7	120	123	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.3	18.6	101	93	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.8	19.6	104	98	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	23.5	24.1	118	121	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	24.9	24.7	124	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	25.1	122	125	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.9	18.8	99	94	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.9	18.4	94	92	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.8	18.4	99	92	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.1	19.0	95	95	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.3	22.2	111	111	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	21.0	106	105	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	18.7	98	94	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.9	20.9	105	105	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	22.4	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	19.8	101	99	60-140	2	
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	20.3	19.4	101	97	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	23.8	24.1	119	120	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.9	19.9	104	100	60-140	5	
4-Chlorotoluene	ug/L	ND	20	20	20.2	19.6	101	98	60-140	3	
Benzene	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0	
Bromobenzene	ug/L	ND	20	20	20.6	20.2	103	101	60-140	2	
Bromochloromethane	ug/L	ND	20	20	23.9	23.5	120	118	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.9	20.8	105	104	60-140	1	
Bromoform	ug/L	ND	20	20	20.6	19.8	103	99	60-140	4	
Bromomethane	ug/L	ND	20	20	26.3	28.2	132	141	60-140	7	M1
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.5	113	112	60-140	0	
Chlorobenzene	ug/L	ND	20	20	20.9	20.3	104	102	60-140	3	
Chloroethane	ug/L	ND	20	20	23.3	23.7	116	119	60-140	2	
Chloroform	ug/L	ND	20	20	23.7	23.9	118	120	60-140	1	
Chloromethane	ug/L	ND	20	20	21.8	22.0	109	110	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.6	21.5	113	107	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	22.7	23.7	113	119	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	20.1	20.6	101	103	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	22.0	22.7	110	113	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.9	20.2	105	101	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	22.5	108	113	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	19.6	107	98	60-140	8	
m&p-Xylene	ug/L	ND	40	40	41.2	39.3	103	98	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.6	23.3	113	116	60-140	3	
Methylene Chloride	ug/L	ND	20	20	21.5	22.4	107	112	60-140	4	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.1	19.4	101	97	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	6	
Naphthalene	ug/L	ND	20	20	19.9	19.1	99	96	60-140	4	
o-Xylene	ug/L	ND	20	20	21.2	19.5	106	98	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	3	
Styrene	ug/L	ND	20	20	20.9	18.7	104	94	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.8	90	89	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	21.1	22.0	106	110	60-140	4	
Toluene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.3	24.5	122	123	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.0	19.9	105	100	60-140	5	
Trichloroethene	ug/L	ND	20	20	22.3	21.9	111	110	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	23.4	23.3	117	117	60-140	0	
Vinyl chloride	ug/L	ND	20	20	22.9	23.5	115	117	60-140	2	
1,2-Dichloroethane-d4 (S)	%						105	108	70-130		
4-Bromofluorobenzene (S)	%						99	94	70-130		
Toluene-d8 (S)	%						101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508024

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508024001	**13800_HC_RD_20201124**	MADEPV	1584890	MADEP VPH	1584890
92508024001	**13800_HC_RD_20201124**	EPA 3010A	583174	EPA 6010D	583303
92508024001	**13800_HC_RD_20201124**	SM 6200B	583032		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY

WO# : 92508024

92508024

Container Pr

** 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 _____

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 13800 Huntersville Concord Rd
Customer Project Name/Number: 2020-CI-2448 Incident	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP 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)

Analyses: VOCs 6200B | MADEP VPH | Lead

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead
13800.HC.RD.20201124	DW	G	11-24-20	0900				8	X	X	X

Lab Profile/Line: 92508024 001

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap/ziplock

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

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

Lab Tracking #: 2560536

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 921064
Cooler 1 Temp Upon Receipt: 1.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	11-24-20 1410	LDH PACE HVL	11/24/20 1413
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

***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#: 92508024**

PM: AMB Due Date: 11/25/20

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)	SPST-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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 24, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508028001	**14226_HC_RD_20201124**	MADEP VPH	JAH	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

Sample: 14226_HC_RD_20201124 **Lab ID: 92508028001** Collected: 11/24/20 11:10 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/02/20 08:18	12/02/20 08:18		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/02/20 08:18	12/02/20 08:18		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/02/20 08:18	12/02/20 08:18	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/02/20 08:18	12/02/20 08:18	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.1	%	70.0-130	1	12/02/20 08:18	12/02/20 08:18	615-59-8FID	
2,5-Dibromotoluene (PID)	93.1	%	70.0-130	1	12/02/20 08:18	12/02/20 08:18	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	11/30/20 10:55	12/04/20 00:28	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		11/26/20 01:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/26/20 01:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/26/20 01:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/26/20 01:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/26/20 01:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/26/20 01:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/26/20 01:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/26/20 01:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/26/20 01:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/26/20 01:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/26/20 01:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/26/20 01:13	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/26/20 01:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/26/20 01:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/26/20 01:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/26/20 01:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/26/20 01:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/26/20 01:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/26/20 01:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/26/20 01:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 01:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 01:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/26/20 01:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/26/20 01:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/26/20 01:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/26/20 01:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/26/20 01:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/26/20 01:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/26/20 01:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/26/20 01:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/26/20 01:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/26/20 01:13	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

Sample: 14226_HC_RD_20201124 **Lab ID: 92508028001** Collected: 11/24/20 11:10 Received: 11/24/20 14:13 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		11/26/20 01:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/26/20 01:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/26/20 01:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/26/20 01:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/26/20 01:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/26/20 01:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/26/20 01:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/26/20 01:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/26/20 01:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/26/20 01:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/26/20 01:13	103-65-1	
Styrene	ND	ug/L	0.50	1		11/26/20 01:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/26/20 01:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/26/20 01:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/26/20 01:13	127-18-4	
Toluene	ND	ug/L	0.50	1		11/26/20 01:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/26/20 01:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/26/20 01:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/26/20 01:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/26/20 01:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/26/20 01:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/26/20 01:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/26/20 01:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/26/20 01:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/26/20 01:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/26/20 01:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/26/20 01:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/26/20 01:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		11/26/20 01:13	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		11/26/20 01:13	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		11/26/20 01:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

QC Batch: 1584890
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508028001

METHOD BLANK: R3599477-3 Matrix: Water
Associated Lab Samples: 92508028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/01/20 20:01	
Aliphatic (C09-C12)	ug/L	ND	100	12/01/20 20:01	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/01/20 20:01	
Total VPH	ug/L	ND	100	12/01/20 20:01	
2,5-Dibromotoluene (FID)	%	93.8	70.0-130	12/01/20 20:01	
2,5-Dibromotoluene (PID)	%	94.3	70.0-130	12/01/20 20:01	

LABORATORY CONTROL SAMPLE & LCSD: R3599477-1 R3599477-2

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	1210	104	101	70.0-130	3.25	25	
Aliphatic (C09-C12)	ug/L	1400	1410	1340	101	95.7	70.0-130	5.09	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	187	93.0	93.5	70.0-130	0.536	25	
Total VPH	ug/L	2800	2850	2740	102	97.9	70.0-130	3.94	25	
2,5-Dibromotoluene (FID)	%				93.3	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	96.1	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

QC Batch: 583174
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92508028001

METHOD BLANK: 3083588 Matrix: Water
Associated Lab Samples: 92508028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/03/20 23:39	

LABORATORY CONTROL SAMPLE: 3083589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083590 3083591

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	261	258	102	102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

QC Batch: 583032
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508028001

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
1,1-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/25/20 22:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloroethane	ug/L	ND	0.50	11/25/20 22:14	
1,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
1,3-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
2,2-Dichloropropane	ug/L	ND	0.50	11/25/20 22:14	
2-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
4-Chlorotoluene	ug/L	ND	0.50	11/25/20 22:14	
Benzene	ug/L	ND	0.50	11/25/20 22:14	
Bromobenzene	ug/L	ND	0.50	11/25/20 22:14	
Bromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromodichloromethane	ug/L	ND	0.50	11/25/20 22:14	
Bromoform	ug/L	ND	0.50	11/25/20 22:14	
Bromomethane	ug/L	ND	5.0	11/25/20 22:14	
Carbon tetrachloride	ug/L	ND	0.50	11/25/20 22:14	
Chlorobenzene	ug/L	ND	0.50	11/25/20 22:14	
Chloroethane	ug/L	ND	1.0	11/25/20 22:14	
Chloroform	ug/L	ND	0.50	11/25/20 22:14	
Chloromethane	ug/L	ND	1.0	11/25/20 22:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Dibromochloromethane	ug/L	ND	0.50	11/25/20 22:14	
Dibromomethane	ug/L	ND	0.50	11/25/20 22:14	
Dichlorodifluoromethane	ug/L	ND	0.50	11/25/20 22:14	
Diisopropyl ether	ug/L	ND	0.50	11/25/20 22:14	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

METHOD BLANK: 3082980 Matrix: Water
Associated Lab Samples: 92508028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/25/20 22:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/25/20 22:14	
m&p-Xylene	ug/L	ND	1.0	11/25/20 22:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/25/20 22:14	
Methylene Chloride	ug/L	ND	2.0	11/25/20 22:14	
n-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
n-Propylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Naphthalene	ug/L	ND	2.0	11/25/20 22:14	
o-Xylene	ug/L	ND	0.50	11/25/20 22:14	
sec-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Styrene	ug/L	ND	0.50	11/25/20 22:14	
tert-Butylbenzene	ug/L	ND	0.50	11/25/20 22:14	
Tetrachloroethene	ug/L	ND	0.50	11/25/20 22:14	
Toluene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/25/20 22:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/25/20 22:14	
Trichloroethene	ug/L	ND	0.50	11/25/20 22:14	
Trichlorofluoromethane	ug/L	ND	1.0	11/25/20 22:14	
Vinyl chloride	ug/L	ND	1.0	11/25/20 22:14	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/25/20 22:14	
4-Bromofluorobenzene (S)	%	95	70-130	11/25/20 22:14	
Toluene-d8 (S)	%	102	70-130	11/25/20 22:14	

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	60-140	
1,1,1-Trichloroethane	ug/L	50	45.7	91	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	42.7	85	60-140	
1,1,2-Trichloroethane	ug/L	50	46.2	92	60-140	
1,1-Dichloroethane	ug/L	50	46.7	93	60-140	
1,1-Dichloroethene	ug/L	50	44.2	88	60-140	
1,1-Dichloropropene	ug/L	50	48.4	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.6	97	60-140	
1,2,3-Trichloropropane	ug/L	50	40.2	80	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.2	90	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.3	95	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	49.2	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	39.8	80	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

LABORATORY CONTROL SAMPLE: 3082981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,3-Dichloropropane	ug/L	50	52.0	104	60-140	
1,4-Dichlorobenzene	ug/L	50	47.3	95	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	41.3	83	60-140	
4-Chlorotoluene	ug/L	50	41.5	83	60-140	
Benzene	ug/L	50	46.2	92	60-140	
Bromobenzene	ug/L	50	47.1	94	60-140	
Bromochloromethane	ug/L	50	48.4	97	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	45.4	91	60-140	
Bromomethane	ug/L	50	49.8	100	60-140	
Carbon tetrachloride	ug/L	50	43.2	86	60-140	
Chlorobenzene	ug/L	50	46.3	93	60-140	
Chloroethane	ug/L	50	40.1	80	60-140	
Chloroform	ug/L	50	46.4	93	60-140	
Chloromethane	ug/L	50	39.6	79	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	60-140	
Dibromochloromethane	ug/L	50	54.8	110	60-140	
Dibromomethane	ug/L	50	46.9	94	60-140	
Dichlorodifluoromethane	ug/L	50	42.7	85	60-140	
Diisopropyl ether	ug/L	50	44.3	89	60-140	
Ethylbenzene	ug/L	50	45.2	90	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	60-140	
m&p-Xylene	ug/L	100	96.7	97	60-140	
Methyl-tert-butyl ether	ug/L	50	46.7	93	60-140	
Methylene Chloride	ug/L	50	42.4	85	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	45.0	90	60-140	
Naphthalene	ug/L	50	45.6	91	60-140	
o-Xylene	ug/L	50	47.5	95	60-140	
sec-Butylbenzene	ug/L	50	47.3	95	60-140	
Styrene	ug/L	50	47.2	94	60-140	
tert-Butylbenzene	ug/L	50	39.7	79	60-140	
Tetrachloroethene	ug/L	50	47.3	95	60-140	
Toluene	ug/L	50	45.2	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.5	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.5	81	60-140	
Vinyl chloride	ug/L	50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.2	108	106	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.0	24.7	120	123	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.3	18.6	101	93	60-140	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.8	19.6	104	98	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	23.5	24.1	118	121	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	24.9	24.7	124	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	25.1	122	125	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.9	18.8	99	94	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.9	18.4	94	92	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.8	18.4	99	92	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.1	19.0	95	95	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.3	22.2	111	111	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	21.0	106	105	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	18.7	98	94	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.9	20.9	105	105	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	22.4	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	19.8	101	99	60-140	2	
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	20.3	19.4	101	97	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	23.8	24.1	119	120	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.9	19.9	104	100	60-140	5	
4-Chlorotoluene	ug/L	ND	20	20	20.2	19.6	101	98	60-140	3	
Benzene	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0	
Bromobenzene	ug/L	ND	20	20	20.6	20.2	103	101	60-140	2	
Bromochloromethane	ug/L	ND	20	20	23.9	23.5	120	118	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20.9	20.8	105	104	60-140	1	
Bromoform	ug/L	ND	20	20	20.6	19.8	103	99	60-140	4	
Bromomethane	ug/L	ND	20	20	26.3	28.2	132	141	60-140	7	M1
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.5	113	112	60-140	0	
Chlorobenzene	ug/L	ND	20	20	20.9	20.3	104	102	60-140	3	
Chloroethane	ug/L	ND	20	20	23.3	23.7	116	119	60-140	2	
Chloroform	ug/L	ND	20	20	23.7	23.9	118	120	60-140	1	
Chloromethane	ug/L	ND	20	20	21.8	22.0	109	110	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.5	22.4	112	112	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.6	21.5	113	107	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	22.7	23.7	113	119	60-140	5	
Dibromomethane	ug/L	ND	20	20	20.6	21.1	103	105	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	20.1	20.6	101	103	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	22.0	22.7	110	113	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.9	20.2	105	101	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	22.5	108	113	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	19.6	107	98	60-140	8	
m&p-Xylene	ug/L	ND	40	40	41.2	39.3	103	98	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.6	23.3	113	116	60-140	3	
Methylene Chloride	ug/L	ND	20	20	21.5	22.4	107	112	60-140	4	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3083835 3083836

Parameter	Units	92508004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.1	19.4	101	97	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	21.1	19.7	105	99	60-140	6	
Naphthalene	ug/L	ND	20	20	19.9	19.1	99	96	60-140	4	
o-Xylene	ug/L	ND	20	20	21.2	19.5	106	98	60-140	8	
sec-Butylbenzene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	3	
Styrene	ug/L	ND	20	20	20.9	18.7	104	94	60-140	11	
tert-Butylbenzene	ug/L	ND	20	20	18.0	17.8	90	89	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	21.1	22.0	106	110	60-140	4	
Toluene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.3	24.5	122	123	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.0	19.9	105	100	60-140	5	
Trichloroethene	ug/L	ND	20	20	22.3	21.9	111	110	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	23.4	23.3	117	117	60-140	0	
Vinyl chloride	ug/L	ND	20	20	22.9	23.5	115	117	60-140	2	
1,2-Dichloroethane-d4 (S)	%						105	108	70-130		
4-Bromofluorobenzene (S)	%						99	94	70-130		
Toluene-d8 (S)	%						101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508028

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508028001	**14226_HC_RD_20201124**	MADEPV	1584890	MADEP VPH	1584890
92508028001	**14226_HC_RD_20201124**	EPA 3010A	583174	EPA 6010D	583303
92508028001	**14226_HC_RD_20201124**	SM 6200B	583032		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB US

WO# : 92508028

92508028

umber or

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 14226 Huntersville Concord Rd
Customer Project Name/Number: 2020-LI-2448 Incident	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP 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)

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 _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 6200B	MADEP VPH	Lead	Lab Profile/Line:
14226.HC-PD.20201124	DW	G	11-24-20	1110				8	X	X	X	92508028 001

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap/ziplock

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

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

Lab Tracking #: 2560517

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 1.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	11-24-20 1410	LDH PACE HVL	11/24/20 1413
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

***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# : 92508028**

PM: AMB Due Date: 11/25/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 09, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508707001	**13800_HC_RD_20201201**	MADEP VPH	BMB	6	PAN
		EPA 6010D	RDT	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

Sample: 13800_HC_RD_20201201 **Lab ID: 92508707001** Collected: 12/01/20 08:40 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/07/20 18:20	12/07/20 18:20		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/07/20 18:20	12/07/20 18:20		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/07/20 18:20	12/07/20 18:20	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/07/20 18:20	12/07/20 18:20	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	84.8	%	70.0-130	1	12/07/20 18:20	12/07/20 18:20	615-59-8FID	
2,5-Dibromotoluene (PID)	78.1	%	70.0-130	1	12/07/20 18:20	12/07/20 18:20	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**7.8**	ug/L	5.0	1	12/05/20 01:40	12/06/20 23:49	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 18:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 18:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 18:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 18:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 18:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 18:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 18:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 18:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 18:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 18:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 18:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 18:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 18:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 18:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 18:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 18:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 18:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 18:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 18:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 18:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 18:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 18:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 18:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 18:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 18:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 18:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 18:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 18:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 18:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 18:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 18:27	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

Sample: 13800_HC_RD_20201201 **Lab ID: 92508707001** Collected: 12/01/20 08:40 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 18:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 18:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 18:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 18:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 18:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 18:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 18:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 18:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 18:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 18:27	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 18:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 18:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 18:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 18:27	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 18:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 18:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 18:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 18:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 18:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 18:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 18:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 18:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 18:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 18:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 18:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 18:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/03/20 18:27	17060-07-0	
4-Bromofluorobenzene (S)	81	%	70-130	1		12/03/20 18:27	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		12/03/20 18:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

QC Batch: 1587907
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508707001

METHOD BLANK: R3601495-3 Matrix: Water
Associated Lab Samples: 92508707001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/07/20 16:43	
Aliphatic (C09-C12)	ug/L	ND	100	12/07/20 16:43	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/07/20 16:43	
Total VPH	ug/L	ND	100	12/07/20 16:43	
2,5-Dibromotoluene (FID)	%	81	70.0-130	12/07/20 16:43	
2,5-Dibromotoluene (PID)	%	73.2	70.0-130	12/07/20 16:43	

LABORATORY CONTROL SAMPLE & LCSD: R3601495-1 R3601495-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1120	95.8	93.3	70.0-130	2.64	25	
Aliphatic (C09-C12)	ug/L	1400	1280	1250	91.4	89.3	70.0-130	2.37	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	169	168	84.5	84.0	70.0-130	0.593	25	
Total VPH	ug/L	2800	2600	2540	92.9	90.7	70.0-130	2.33	25	
2,5-Dibromotoluene (FID)	%				87.7	84.7	70.0-130			
2,5-Dibromotoluene (PID)	%				81.9	78.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

QC Batch: 584787
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508707001

METHOD BLANK: 3091446 Matrix: Water
Associated Lab Samples: 92508707001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/05/20 16:42	

LABORATORY CONTROL SAMPLE: 3091447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	259	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3091448 3091449

Parameter	Units	92507565004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	207	262	83	105	75-125	23	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

QC Batch: 584319
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508707001

METHOD BLANK: 3088882 Matrix: Water
Associated Lab Samples: 92508707001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/03/20 14:17	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/03/20 14:17	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/03/20 14:17	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
1,3-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
2,2-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
2-Chlorotoluene	ug/L	ND	0.50	12/03/20 14:17	
4-Chlorotoluene	ug/L	ND	0.50	12/03/20 14:17	
Benzene	ug/L	ND	0.50	12/03/20 14:17	
Bromobenzene	ug/L	ND	0.50	12/03/20 14:17	
Bromochloromethane	ug/L	ND	0.50	12/03/20 14:17	
Bromodichloromethane	ug/L	ND	0.50	12/03/20 14:17	
Bromoform	ug/L	ND	0.50	12/03/20 14:17	
Bromomethane	ug/L	ND	5.0	12/03/20 14:17	
Carbon tetrachloride	ug/L	ND	0.50	12/03/20 14:17	
Chlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
Chloroethane	ug/L	ND	1.0	12/03/20 14:17	
Chloroform	ug/L	ND	0.50	12/03/20 14:17	
Chloromethane	ug/L	ND	1.0	12/03/20 14:17	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
Dibromochloromethane	ug/L	ND	0.50	12/03/20 14:17	
Dibromomethane	ug/L	ND	0.50	12/03/20 14:17	
Dichlorodifluoromethane	ug/L	ND	0.50	12/03/20 14:17	
Diisopropyl ether	ug/L	ND	0.50	12/03/20 14:17	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

METHOD BLANK: 3088882 Matrix: Water
Associated Lab Samples: 92508707001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/03/20 14:17	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/03/20 14:17	
m&p-Xylene	ug/L	ND	1.0	12/03/20 14:17	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/03/20 14:17	
Methylene Chloride	ug/L	ND	2.0	12/03/20 14:17	
n-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
n-Propylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Naphthalene	ug/L	ND	2.0	12/03/20 14:17	
o-Xylene	ug/L	ND	0.50	12/03/20 14:17	
sec-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Styrene	ug/L	ND	0.50	12/03/20 14:17	
tert-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Tetrachloroethene	ug/L	ND	0.50	12/03/20 14:17	
Toluene	ug/L	ND	0.50	12/03/20 14:17	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
Trichloroethene	ug/L	ND	0.50	12/03/20 14:17	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/20 14:17	
Vinyl chloride	ug/L	ND	1.0	12/03/20 14:17	
1,2-Dichloroethane-d4 (S)	%	91	70-130	12/03/20 14:17	
4-Bromofluorobenzene (S)	%	96	70-130	12/03/20 14:17	
Toluene-d8 (S)	%	99	70-130	12/03/20 14:17	

LABORATORY CONTROL SAMPLE: 3088883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,1-Trichloroethane	ug/L	50	42.2	84	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	63.6	127	60-140	
1,1,2-Trichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethane	ug/L	50	46.6	93	60-140	
1,1-Dichloroethene	ug/L	50	42.4	85	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	58.2	116	60-140	
1,2,4-Trichlorobenzene	ug/L	50	45.3	91	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.3	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.5	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	60-140	
1,2-Dichlorobenzene	ug/L	50	44.3	89	60-140	
1,2-Dichloroethane	ug/L	50	40.2	80	60-140	
1,2-Dichloropropane	ug/L	50	50.8	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

LABORATORY CONTROL SAMPLE: 3088883

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	60.6	121	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	44.6	89	60-140	
2-Chlorotoluene	ug/L	50	50.2	100	60-140	
4-Chlorotoluene	ug/L	50	49.4	99	60-140	
Benzene	ug/L	50	59.4	119	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	42.3	85	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	59.2	118	60-140	
Bromomethane	ug/L	50	41.8	84	60-140	
Carbon tetrachloride	ug/L	50	46.4	93	60-140	
Chlorobenzene	ug/L	50	49.1	98	60-140	
Chloroethane	ug/L	50	37.3	75	60-140	
Chloroform	ug/L	50	40.8	82	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Dibromochloromethane	ug/L	50	64.2	128	60-140	
Dibromomethane	ug/L	50	55.9	112	60-140	
Dichlorodifluoromethane	ug/L	50	39.3	79	60-140	
Diisopropyl ether	ug/L	50	47.4	95	60-140	
Ethylbenzene	ug/L	50	50.1	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.8	86	60-140	
Isopropylbenzene (Cumene)	ug/L	50	60.5	121	60-140	
m&p-Xylene	ug/L	100	99.7	100	60-140	
Methyl-tert-butyl ether	ug/L	50	41.6	83	60-140	
Methylene Chloride	ug/L	50	41.7	83	60-140	
n-Butylbenzene	ug/L	50	45.2	90	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	46.2	92	60-140	
o-Xylene	ug/L	50	62.2	124	60-140	
sec-Butylbenzene	ug/L	50	49.0	98	60-140	
Styrene	ug/L	50	64.1	128	60-140	
tert-Butylbenzene	ug/L	50	42.4	85	60-140	
Tetrachloroethene	ug/L	50	51.1	102	60-140	
Toluene	ug/L	50	49.9	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.1	84	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Trichloroethene	ug/L	50	48.8	98	60-140	
Trichlorofluoromethane	ug/L	50	37.9	76	60-140	
Vinyl chloride	ug/L	50	41.9	84	60-140	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			125	70-130	
Toluene-d8 (S)	%			94	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088884 3088885

Parameter	Units	92508303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.8	19.7	94	98	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.0	19.6	85	98	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.4	21.3	107	106	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.1	18.4	91	92	60-140	1	
1,1-Dichloroethane	ug/L	ND	20	20	18.4	20.7	92	104	60-140	12	
1,1-Dichloroethene	ug/L	ND	20	20	18.2	20.4	91	102	60-140	11	
1,1-Dichloropropene	ug/L	ND	20	20	17.2	21.1	86	106	60-140	21	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.6	18.3	83	92	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.3	20.1	97	101	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.7	18.0	83	90	60-140	8	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.3	18.2	86	91	60-140	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.0	22.0	100	110	60-140	10	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.5	17.2	97	86	60-140	12	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.4	19.0	97	95	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	16.2	17.5	81	87	60-140	8	
1,2-Dichloropropane	ug/L	ND	20	20	20.5	19.7	103	98	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.1	19.2	95	96	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.1	18.6	91	93	60-140	3	
1,3-Dichloropropane	ug/L	ND	20	20	19.6	18.0	98	90	60-140	9	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.7	18.8	88	94	60-140	6	
2,2-Dichloropropane	ug/L	ND	20	20	16.2	18.3	81	92	60-140	12	
2-Chlorotoluene	ug/L	ND	20	20	20.8	20.1	104	101	60-140	3	
4-Chlorotoluene	ug/L	ND	20	20	18.1	19.1	91	96	60-140	5	
Benzene	ug/L	ND	20	20	18.8	20.5	94	102	60-140	8	
Bromobenzene	ug/L	ND	20	20	18.6	20.2	93	101	60-140	8	
Bromochloromethane	ug/L	ND	20	20	17.1	20.7	86	103	60-140	19	
Bromodichloromethane	ug/L	ND	20	20	17.8	16.8	89	84	60-140	6	
Bromoform	ug/L	ND	20	20	17.4	18.2	87	91	60-140	5	
Bromomethane	ug/L	ND	20	20	15.4	20.0	77	100	60-140	26	
Carbon tetrachloride	ug/L	ND	20	20	18.2	18.3	91	92	60-140	1	
Chlorobenzene	ug/L	ND	20	20	18.8	20.2	94	101	60-140	7	
Chloroethane	ug/L	ND	20	20	17.8	19.2	89	96	60-140	7	
Chloroform	ug/L	ND	20	20	17.8	18.9	89	95	60-140	6	
Chloromethane	ug/L	ND	20	20	15.9	17.7	79	89	60-140	11	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.1	19.2	85	96	60-140	12	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	17.7	97	88	60-140	9	
Dibromochloromethane	ug/L	ND	20	20	18.9	17.8	94	89	60-140	6	
Dibromomethane	ug/L	ND	20	20	18.8	18.7	94	94	60-140	0	
Dichlorodifluoromethane	ug/L	ND	20	20	16.9	18.0	85	90	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	17.2	19.8	86	99	60-140	14	
Ethylbenzene	ug/L	ND	20	20	18.7	20.1	93	100	60-140	7	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.6	18.7	88	93	60-140	6	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.2	20.1	96	100	60-140	4	
m&p-Xylene	ug/L	ND	40	40	36.9	39.5	92	99	60-140	7	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.2	20.1	86	101	60-140	15	
Methylene Chloride	ug/L	ND	20	20	16.7	19.1	84	96	60-140	13	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088884 3088885

Parameter	Units	92508303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	16.6	18.9	83	95	60-140	13	
n-Propylbenzene	ug/L	ND	20	20	18.5	20.3	92	101	60-140	9	
Naphthalene	ug/L	ND	20	20	17.9	20.4	89	102	60-140	13	
o-Xylene	ug/L	ND	20	20	20.5	20.8	103	104	60-140	1	
sec-Butylbenzene	ug/L	ND	20	20	18.5	19.6	92	98	60-140	6	
Styrene	ug/L	ND	20	20	20.9	20.4	105	102	60-140	3	
tert-Butylbenzene	ug/L	ND	20	20	16.3	17.2	81	86	60-140	5	
Tetrachloroethene	ug/L	ND	20	20	18.6	18.2	93	91	60-140	2	
Toluene	ug/L	ND	20	20	20.5	16.9	103	85	60-140	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.2	20.1	91	101	60-140	10	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.8	18.1	89	91	60-140	2	
Trichloroethene	ug/L	ND	20	20	19.1	19.8	96	99	60-140	3	
Trichlorofluoromethane	ug/L	ND	20	20	17.0	18.4	85	92	60-140	8	
Vinyl chloride	ug/L	ND	20	20	18.0	19.4	90	97	60-140	8	
1,2-Dichloroethane-d4 (S)	%						95	95	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						101	89	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508707

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508707001	**13800_HC_RD_20201201**	MADEPV	1587907	MADEP VPH	1587907
92508707001	**13800_HC_RD_20201201**	EPA 3010A	584787	EPA 6010D	584808
92508707001	**13800_HC_RD_20201201**	SM 6200B	584319		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE **WO# : 92508707**

92508707

Container

Company: Apex Companies

Address:

Billing Information:

Report To: Andrew Street

Email To: Andrew.Street@apexcos.com

Copy To:

Site Collection Info/Address: 13800 Huntersville Concord Rd

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

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

Phone:
Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Naomi Fretz

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): Naomi Fretz

Turnaround Date Required: ASAP

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: _____

** 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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 6200B	Analyses: MADEP VPH	Analyses: Lead	Lab Sample # / Comments
13800 HC RD 20201201	DW	G	12-1-20	0340				8	X	X	X	92508707 001

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

92508707 001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap

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

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

Lab Tracking #: 2561073

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92764
Cooler 1 Temp Upon Receipt: 5.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-1-20 1450	VS PACE MN	12/1/20 1445
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

*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#: 92508707**

PM: AMB Due Date: 12/08/20

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)	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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 09, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508712001	**13926A_HC_RD_20201201**	MADEP VPH	BMB	6	PAN
		EPA 6010D	RDT	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

Sample: 13926A_HC_RD_20201201 **Lab ID: 92508712001** Collected: 12/01/20 12:50 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/07/20 19:27	12/07/20 19:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/07/20 19:27	12/07/20 19:27		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/07/20 19:27	12/07/20 19:27	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/07/20 19:27	12/07/20 19:27	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.8	%	70.0-130	1	12/07/20 19:27	12/07/20 19:27	615-59-8FID	
2,5-Dibromotoluene (PID)	80.9	%	70.0-130	1	12/07/20 19:27	12/07/20 19:27	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**5.9**	ug/L	5.0	1	12/05/20 01:40	12/06/20 23:52	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 17:51	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 17:51	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 17:51	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 17:51	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 17:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 17:51	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 17:51	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 17:51	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 17:51	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 17:51	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 17:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 17:51	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 17:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 17:51	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 17:51	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 17:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 17:51	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 17:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 17:51	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 17:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 17:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 17:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 17:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 17:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 17:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 17:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 17:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 17:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 17:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 17:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 17:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 17:51	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

Sample: 13926A_HC_RD_20201201 **Lab ID: 92508712001** Collected: 12/01/20 12:50 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 17:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 17:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 17:51	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 17:51	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 17:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 17:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 17:51	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 17:51	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 17:51	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 17:51	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 17:51	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 17:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 17:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 17:51	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 17:51	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 17:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 17:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 17:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 17:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 17:51	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 17:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 17:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 17:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 17:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 17:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 17:51	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 17:51	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 17:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/03/20 17:51	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/03/20 17:51	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/03/20 17:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

QC Batch: 1587907
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508712001

METHOD BLANK: R3601495-3 Matrix: Water
Associated Lab Samples: 92508712001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/07/20 16:43	
Aliphatic (C09-C12)	ug/L	ND	100	12/07/20 16:43	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/07/20 16:43	
Total VPH	ug/L	ND	100	12/07/20 16:43	
2,5-Dibromotoluene (FID)	%	81	70.0-130	12/07/20 16:43	
2,5-Dibromotoluene (PID)	%	73.2	70.0-130	12/07/20 16:43	

LABORATORY CONTROL SAMPLE & LCSD: R3601495-1 R3601495-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1120	95.8	93.3	70.0-130	2.64	25	
Aliphatic (C09-C12)	ug/L	1400	1280	1250	91.4	89.3	70.0-130	2.37	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	169	168	84.5	84.0	70.0-130	0.593	25	
Total VPH	ug/L	2800	2600	2540	92.9	90.7	70.0-130	2.33	25	
2,5-Dibromotoluene (FID)	%				87.7	84.7	70.0-130			
2,5-Dibromotoluene (PID)	%				81.9	78.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

QC Batch: 584787
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508712001

METHOD BLANK: 3091446 Matrix: Water
Associated Lab Samples: 92508712001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/05/20 16:42	

LABORATORY CONTROL SAMPLE: 3091447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	259	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3091448 3091449

Parameter	Units	92507565004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	207	262	83	105	75-125	23	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

QC Batch: 584319
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508712001

METHOD BLANK: 3088882 Matrix: Water
Associated Lab Samples: 92508712001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/03/20 14:17	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/03/20 14:17	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/03/20 14:17	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
1,3-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
2,2-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
2-Chlorotoluene	ug/L	ND	0.50	12/03/20 14:17	
4-Chlorotoluene	ug/L	ND	0.50	12/03/20 14:17	
Benzene	ug/L	ND	0.50	12/03/20 14:17	
Bromobenzene	ug/L	ND	0.50	12/03/20 14:17	
Bromochloromethane	ug/L	ND	0.50	12/03/20 14:17	
Bromodichloromethane	ug/L	ND	0.50	12/03/20 14:17	
Bromoform	ug/L	ND	0.50	12/03/20 14:17	
Bromomethane	ug/L	ND	5.0	12/03/20 14:17	
Carbon tetrachloride	ug/L	ND	0.50	12/03/20 14:17	
Chlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
Chloroethane	ug/L	ND	1.0	12/03/20 14:17	
Chloroform	ug/L	ND	0.50	12/03/20 14:17	
Chloromethane	ug/L	ND	1.0	12/03/20 14:17	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
Dibromochloromethane	ug/L	ND	0.50	12/03/20 14:17	
Dibromomethane	ug/L	ND	0.50	12/03/20 14:17	
Dichlorodifluoromethane	ug/L	ND	0.50	12/03/20 14:17	
Diisopropyl ether	ug/L	ND	0.50	12/03/20 14:17	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

METHOD BLANK: 3088882 Matrix: Water
Associated Lab Samples: 92508712001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/03/20 14:17	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/03/20 14:17	
m&p-Xylene	ug/L	ND	1.0	12/03/20 14:17	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/03/20 14:17	
Methylene Chloride	ug/L	ND	2.0	12/03/20 14:17	
n-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
n-Propylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Naphthalene	ug/L	ND	2.0	12/03/20 14:17	
o-Xylene	ug/L	ND	0.50	12/03/20 14:17	
sec-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Styrene	ug/L	ND	0.50	12/03/20 14:17	
tert-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Tetrachloroethene	ug/L	ND	0.50	12/03/20 14:17	
Toluene	ug/L	ND	0.50	12/03/20 14:17	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
Trichloroethene	ug/L	ND	0.50	12/03/20 14:17	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/20 14:17	
Vinyl chloride	ug/L	ND	1.0	12/03/20 14:17	
1,2-Dichloroethane-d4 (S)	%	91	70-130	12/03/20 14:17	
4-Bromofluorobenzene (S)	%	96	70-130	12/03/20 14:17	
Toluene-d8 (S)	%	99	70-130	12/03/20 14:17	

LABORATORY CONTROL SAMPLE: 3088883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,1-Trichloroethane	ug/L	50	42.2	84	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	63.6	127	60-140	
1,1,2-Trichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethane	ug/L	50	46.6	93	60-140	
1,1-Dichloroethene	ug/L	50	42.4	85	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	58.2	116	60-140	
1,2,4-Trichlorobenzene	ug/L	50	45.3	91	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.3	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.5	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	60-140	
1,2-Dichlorobenzene	ug/L	50	44.3	89	60-140	
1,2-Dichloroethane	ug/L	50	40.2	80	60-140	
1,2-Dichloropropane	ug/L	50	50.8	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

LABORATORY CONTROL SAMPLE: 3088883

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	60.6	121	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	44.6	89	60-140	
2-Chlorotoluene	ug/L	50	50.2	100	60-140	
4-Chlorotoluene	ug/L	50	49.4	99	60-140	
Benzene	ug/L	50	59.4	119	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	42.3	85	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	59.2	118	60-140	
Bromomethane	ug/L	50	41.8	84	60-140	
Carbon tetrachloride	ug/L	50	46.4	93	60-140	
Chlorobenzene	ug/L	50	49.1	98	60-140	
Chloroethane	ug/L	50	37.3	75	60-140	
Chloroform	ug/L	50	40.8	82	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Dibromochloromethane	ug/L	50	64.2	128	60-140	
Dibromomethane	ug/L	50	55.9	112	60-140	
Dichlorodifluoromethane	ug/L	50	39.3	79	60-140	
Diisopropyl ether	ug/L	50	47.4	95	60-140	
Ethylbenzene	ug/L	50	50.1	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.8	86	60-140	
Isopropylbenzene (Cumene)	ug/L	50	60.5	121	60-140	
m&p-Xylene	ug/L	100	99.7	100	60-140	
Methyl-tert-butyl ether	ug/L	50	41.6	83	60-140	
Methylene Chloride	ug/L	50	41.7	83	60-140	
n-Butylbenzene	ug/L	50	45.2	90	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	46.2	92	60-140	
o-Xylene	ug/L	50	62.2	124	60-140	
sec-Butylbenzene	ug/L	50	49.0	98	60-140	
Styrene	ug/L	50	64.1	128	60-140	
tert-Butylbenzene	ug/L	50	42.4	85	60-140	
Tetrachloroethene	ug/L	50	51.1	102	60-140	
Toluene	ug/L	50	49.9	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.1	84	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Trichloroethene	ug/L	50	48.8	98	60-140	
Trichlorofluoromethane	ug/L	50	37.9	76	60-140	
Vinyl chloride	ug/L	50	41.9	84	60-140	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			125	70-130	
Toluene-d8 (S)	%			94	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088884 3088885

Parameter	Units	92508303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.8	19.7	94	98	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.0	19.6	85	98	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.4	21.3	107	106	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.1	18.4	91	92	60-140	1	
1,1-Dichloroethane	ug/L	ND	20	20	18.4	20.7	92	104	60-140	12	
1,1-Dichloroethene	ug/L	ND	20	20	18.2	20.4	91	102	60-140	11	
1,1-Dichloropropene	ug/L	ND	20	20	17.2	21.1	86	106	60-140	21	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.6	18.3	83	92	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.3	20.1	97	101	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.7	18.0	83	90	60-140	8	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.3	18.2	86	91	60-140	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.0	22.0	100	110	60-140	10	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.5	17.2	97	86	60-140	12	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.4	19.0	97	95	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	16.2	17.5	81	87	60-140	8	
1,2-Dichloropropane	ug/L	ND	20	20	20.5	19.7	103	98	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.1	19.2	95	96	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.1	18.6	91	93	60-140	3	
1,3-Dichloropropane	ug/L	ND	20	20	19.6	18.0	98	90	60-140	9	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.7	18.8	88	94	60-140	6	
2,2-Dichloropropane	ug/L	ND	20	20	16.2	18.3	81	92	60-140	12	
2-Chlorotoluene	ug/L	ND	20	20	20.8	20.1	104	101	60-140	3	
4-Chlorotoluene	ug/L	ND	20	20	18.1	19.1	91	96	60-140	5	
Benzene	ug/L	ND	20	20	18.8	20.5	94	102	60-140	8	
Bromobenzene	ug/L	ND	20	20	18.6	20.2	93	101	60-140	8	
Bromochloromethane	ug/L	ND	20	20	17.1	20.7	86	103	60-140	19	
Bromodichloromethane	ug/L	ND	20	20	17.8	16.8	89	84	60-140	6	
Bromoform	ug/L	ND	20	20	17.4	18.2	87	91	60-140	5	
Bromomethane	ug/L	ND	20	20	15.4	20.0	77	100	60-140	26	
Carbon tetrachloride	ug/L	ND	20	20	18.2	18.3	91	92	60-140	1	
Chlorobenzene	ug/L	ND	20	20	18.8	20.2	94	101	60-140	7	
Chloroethane	ug/L	ND	20	20	17.8	19.2	89	96	60-140	7	
Chloroform	ug/L	ND	20	20	17.8	18.9	89	95	60-140	6	
Chloromethane	ug/L	ND	20	20	15.9	17.7	79	89	60-140	11	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.1	19.2	85	96	60-140	12	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	17.7	97	88	60-140	9	
Dibromochloromethane	ug/L	ND	20	20	18.9	17.8	94	89	60-140	6	
Dibromomethane	ug/L	ND	20	20	18.8	18.7	94	94	60-140	0	
Dichlorodifluoromethane	ug/L	ND	20	20	16.9	18.0	85	90	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	17.2	19.8	86	99	60-140	14	
Ethylbenzene	ug/L	ND	20	20	18.7	20.1	93	100	60-140	7	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.6	18.7	88	93	60-140	6	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.2	20.1	96	100	60-140	4	
m&p-Xylene	ug/L	ND	40	40	36.9	39.5	92	99	60-140	7	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.2	20.1	86	101	60-140	15	
Methylene Chloride	ug/L	ND	20	20	16.7	19.1	84	96	60-140	13	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088884 3088885

Parameter	Units	92508303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	16.6	18.9	83	95	60-140	13	
n-Propylbenzene	ug/L	ND	20	20	18.5	20.3	92	101	60-140	9	
Naphthalene	ug/L	ND	20	20	17.9	20.4	89	102	60-140	13	
o-Xylene	ug/L	ND	20	20	20.5	20.8	103	104	60-140	1	
sec-Butylbenzene	ug/L	ND	20	20	18.5	19.6	92	98	60-140	6	
Styrene	ug/L	ND	20	20	20.9	20.4	105	102	60-140	3	
tert-Butylbenzene	ug/L	ND	20	20	16.3	17.2	81	86	60-140	5	
Tetrachloroethene	ug/L	ND	20	20	18.6	18.2	93	91	60-140	2	
Toluene	ug/L	ND	20	20	20.5	16.9	103	85	60-140	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.2	20.1	91	101	60-140	10	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.8	18.1	89	91	60-140	2	
Trichloroethene	ug/L	ND	20	20	19.1	19.8	96	99	60-140	3	
Trichlorofluoromethane	ug/L	ND	20	20	17.0	18.4	85	92	60-140	8	
Vinyl chloride	ug/L	ND	20	20	18.0	19.4	90	97	60-140	8	
1,2-Dichloroethane-d4 (S)	%						95	95	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						101	89	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508712

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508712001	**13926A_HC_RD_20201201**	MADEPV	1587907	MADEP VPH	1587907
92508712001	**13926A_HC_RD_20201201**	EPA 3010A	584787	EPA 6010D	584808
92508712001	**13926A_HC_RD_20201201**	SM 6200B	584319		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

WO# : 92508712

92508712

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 13926A Huntersville Concord R
Customer Project Name/Number: 2020-LI-Incident	State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP 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: _____

rder Number or

NLY

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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead	Analyses	Lab Profile/Line:
13926A-HC-RO-20201201	DW	G	12-1-20	1250				3	X	X	X		92508712 001

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap

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

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

Lab Tracking #: 2561071

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92TH4
Cooler 1 Temp Upon Receipt: 5.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-1-20 1415	VS PACE HH	12/1/20 1415
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

Pace Analytical

Sample Condition Upon Receipt(SCUR)	Page 2 of 2
Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

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

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

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

Project # **WO# : 92508712**

PM: AMB Due Date: 12/08/20

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)	VJGK (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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 10, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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
Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508713001	**13945_AC_Rd_20201201**	MADEP VPH	BMB, JAH	6	PAN
		EPA 6010D	RDT	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

Sample: 13945_AC_Rd_20201201 **Lab ID: 92508713001** Collected: 12/01/20 10:15 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/05/20 20:00	12/05/20 20:00		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/05/20 20:00	12/05/20 20:00		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 14:56	12/09/20 14:56	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/05/20 20:00	12/05/20 20:00	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	84.9	%	70.0-130	1	12/05/20 20:00	12/05/20 20:00	615-59-8FID	
2,5-Dibromotoluene (FID)	97.1	%	70.0-130	1	12/09/20 14:56	12/09/20 14:56	615-59-8FID	
2,5-Dibromotoluene (PID)	78.7	%	70.0-130	1	12/05/20 20:00	12/05/20 20:00	615-59-8PID	
2,5-Dibromotoluene (PID)	94.3	%	70.0-130	1	12/09/20 14:56	12/09/20 14:56	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	12/05/20 01:40	12/06/20 23:55	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 18:09	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 18:09	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 18:09	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 18:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 18:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 18:09	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 18:09	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 18:09	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 18:09	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 18:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 18:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 18:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 18:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 18:09	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 18:09	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 18:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 18:09	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 18:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 18:09	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 18:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 18:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 18:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 18:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 18:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 18:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 18:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 18:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 18:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 18:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 18:09	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

Sample: 13945_AC_Rd_20201201 **Lab ID: 92508713001** Collected: 12/01/20 10:15 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 18:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 18:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 18:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 18:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 18:09	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 18:09	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 18:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 18:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 18:09	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 18:09	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 18:09	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 18:09	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 18:09	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 18:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 18:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 18:09	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 18:09	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 18:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 18:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 18:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 18:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 18:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 18:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 18:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 18:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 18:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 18:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 18:09	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 18:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 18:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		12/03/20 18:09	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		12/03/20 18:09	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		12/03/20 18:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

QC Batch: 1587240
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508713001

METHOD BLANK: R3601131-3 Matrix: Water
Associated Lab Samples: 92508713001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/05/20 18:21	
Aliphatic (C09-C12)	ug/L	ND	100	12/05/20 18:21	
Total VPH	ug/L	ND	100	12/05/20 18:21	
2,5-Dibromotoluene (FID)	%	79.9	70.0-130	12/05/20 18:21	
2,5-Dibromotoluene (PID)	%	73.1	70.0-130	12/05/20 18:21	

LABORATORY CONTROL SAMPLE & LCSD: R3601131-1 R3601131-2

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	1020	84.2	85.0	70.0-130	0.985	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1360	95.0	97.1	70.0-130	2.23	25	
Total VPH	ug/L	2800	2530	2570	90.4	91.8	70.0-130	1.57	25	
2,5-Dibromotoluene (FID)	%				83.6	84.9	70.0-130			
2,5-Dibromotoluene (PID)	%				78.7	79.6	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

QC Batch: 1588008
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508713001

METHOD BLANK: R3601876-2 Matrix: Water
Associated Lab Samples: 92508713001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/09/20 06:27	
2,5-Dibromotoluene (FID)	%	92.7	70.0-130	12/09/20 06:27	
2,5-Dibromotoluene (PID)	%	90.4	70.0-130	12/09/20 06:27	

LABORATORY CONTROL SAMPLE & LCSD: R3601876-1 R3601876-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	200	228	232	114	116	70.0-130	1.74	25	
2,5-Dibromotoluene (FID)	%				102	90.7	70.0-130			
2,5-Dibromotoluene (PID)	%				103	88.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

QC Batch: 584787
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508713001

METHOD BLANK: 3091446 Matrix: Water
Associated Lab Samples: 92508713001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/05/20 16:42	

LABORATORY CONTROL SAMPLE: 3091447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	259	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3091448 3091449

Parameter	Units	92507565004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	207	262	83	105	75-125	23	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

QC Batch: 584319
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508713001

METHOD BLANK: 3088882 Matrix: Water
Associated Lab Samples: 92508713001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/03/20 14:17	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/03/20 14:17	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/03/20 14:17	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
1,3-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
2,2-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
2-Chlorotoluene	ug/L	ND	0.50	12/03/20 14:17	
4-Chlorotoluene	ug/L	ND	0.50	12/03/20 14:17	
Benzene	ug/L	ND	0.50	12/03/20 14:17	
Bromobenzene	ug/L	ND	0.50	12/03/20 14:17	
Bromochloromethane	ug/L	ND	0.50	12/03/20 14:17	
Bromodichloromethane	ug/L	ND	0.50	12/03/20 14:17	
Bromoform	ug/L	ND	0.50	12/03/20 14:17	
Bromomethane	ug/L	ND	5.0	12/03/20 14:17	
Carbon tetrachloride	ug/L	ND	0.50	12/03/20 14:17	
Chlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
Chloroethane	ug/L	ND	1.0	12/03/20 14:17	
Chloroform	ug/L	ND	0.50	12/03/20 14:17	
Chloromethane	ug/L	ND	1.0	12/03/20 14:17	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
Dibromochloromethane	ug/L	ND	0.50	12/03/20 14:17	
Dibromomethane	ug/L	ND	0.50	12/03/20 14:17	
Dichlorodifluoromethane	ug/L	ND	0.50	12/03/20 14:17	
Diisopropyl ether	ug/L	ND	0.50	12/03/20 14:17	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

METHOD BLANK: 3088882 Matrix: Water
Associated Lab Samples: 92508713001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/03/20 14:17	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/03/20 14:17	
m&p-Xylene	ug/L	ND	1.0	12/03/20 14:17	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/03/20 14:17	
Methylene Chloride	ug/L	ND	2.0	12/03/20 14:17	
n-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
n-Propylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Naphthalene	ug/L	ND	2.0	12/03/20 14:17	
o-Xylene	ug/L	ND	0.50	12/03/20 14:17	
sec-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Styrene	ug/L	ND	0.50	12/03/20 14:17	
tert-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Tetrachloroethene	ug/L	ND	0.50	12/03/20 14:17	
Toluene	ug/L	ND	0.50	12/03/20 14:17	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
Trichloroethene	ug/L	ND	0.50	12/03/20 14:17	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/20 14:17	
Vinyl chloride	ug/L	ND	1.0	12/03/20 14:17	
1,2-Dichloroethane-d4 (S)	%	91	70-130	12/03/20 14:17	
4-Bromofluorobenzene (S)	%	96	70-130	12/03/20 14:17	
Toluene-d8 (S)	%	99	70-130	12/03/20 14:17	

LABORATORY CONTROL SAMPLE: 3088883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,1-Trichloroethane	ug/L	50	42.2	84	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	63.6	127	60-140	
1,1,2-Trichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethane	ug/L	50	46.6	93	60-140	
1,1-Dichloroethene	ug/L	50	42.4	85	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	58.2	116	60-140	
1,2,4-Trichlorobenzene	ug/L	50	45.3	91	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.3	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.5	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	60-140	
1,2-Dichlorobenzene	ug/L	50	44.3	89	60-140	
1,2-Dichloroethane	ug/L	50	40.2	80	60-140	
1,2-Dichloropropane	ug/L	50	50.8	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

LABORATORY CONTROL SAMPLE: 3088883

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	60.6	121	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	44.6	89	60-140	
2-Chlorotoluene	ug/L	50	50.2	100	60-140	
4-Chlorotoluene	ug/L	50	49.4	99	60-140	
Benzene	ug/L	50	59.4	119	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	42.3	85	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	59.2	118	60-140	
Bromomethane	ug/L	50	41.8	84	60-140	
Carbon tetrachloride	ug/L	50	46.4	93	60-140	
Chlorobenzene	ug/L	50	49.1	98	60-140	
Chloroethane	ug/L	50	37.3	75	60-140	
Chloroform	ug/L	50	40.8	82	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Dibromochloromethane	ug/L	50	64.2	128	60-140	
Dibromomethane	ug/L	50	55.9	112	60-140	
Dichlorodifluoromethane	ug/L	50	39.3	79	60-140	
Diisopropyl ether	ug/L	50	47.4	95	60-140	
Ethylbenzene	ug/L	50	50.1	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.8	86	60-140	
Isopropylbenzene (Cumene)	ug/L	50	60.5	121	60-140	
m&p-Xylene	ug/L	100	99.7	100	60-140	
Methyl-tert-butyl ether	ug/L	50	41.6	83	60-140	
Methylene Chloride	ug/L	50	41.7	83	60-140	
n-Butylbenzene	ug/L	50	45.2	90	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	46.2	92	60-140	
o-Xylene	ug/L	50	62.2	124	60-140	
sec-Butylbenzene	ug/L	50	49.0	98	60-140	
Styrene	ug/L	50	64.1	128	60-140	
tert-Butylbenzene	ug/L	50	42.4	85	60-140	
Tetrachloroethene	ug/L	50	51.1	102	60-140	
Toluene	ug/L	50	49.9	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.1	84	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Trichloroethene	ug/L	50	48.8	98	60-140	
Trichlorofluoromethane	ug/L	50	37.9	76	60-140	
Vinyl chloride	ug/L	50	41.9	84	60-140	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			125	70-130	
Toluene-d8 (S)	%			94	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088884 3088885

Parameter	Units	92508303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.8	19.7	94	98	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.0	19.6	85	98	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.4	21.3	107	106	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.1	18.4	91	92	60-140	1	
1,1-Dichloroethane	ug/L	ND	20	20	18.4	20.7	92	104	60-140	12	
1,1-Dichloroethene	ug/L	ND	20	20	18.2	20.4	91	102	60-140	11	
1,1-Dichloropropene	ug/L	ND	20	20	17.2	21.1	86	106	60-140	21	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.6	18.3	83	92	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.3	20.1	97	101	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.7	18.0	83	90	60-140	8	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.3	18.2	86	91	60-140	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.0	22.0	100	110	60-140	10	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.5	17.2	97	86	60-140	12	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.4	19.0	97	95	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	16.2	17.5	81	87	60-140	8	
1,2-Dichloropropane	ug/L	ND	20	20	20.5	19.7	103	98	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.1	19.2	95	96	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.1	18.6	91	93	60-140	3	
1,3-Dichloropropane	ug/L	ND	20	20	19.6	18.0	98	90	60-140	9	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.7	18.8	88	94	60-140	6	
2,2-Dichloropropane	ug/L	ND	20	20	16.2	18.3	81	92	60-140	12	
2-Chlorotoluene	ug/L	ND	20	20	20.8	20.1	104	101	60-140	3	
4-Chlorotoluene	ug/L	ND	20	20	18.1	19.1	91	96	60-140	5	
Benzene	ug/L	ND	20	20	18.8	20.5	94	102	60-140	8	
Bromobenzene	ug/L	ND	20	20	18.6	20.2	93	101	60-140	8	
Bromochloromethane	ug/L	ND	20	20	17.1	20.7	86	103	60-140	19	
Bromodichloromethane	ug/L	ND	20	20	17.8	16.8	89	84	60-140	6	
Bromoform	ug/L	ND	20	20	17.4	18.2	87	91	60-140	5	
Bromomethane	ug/L	ND	20	20	15.4	20.0	77	100	60-140	26	
Carbon tetrachloride	ug/L	ND	20	20	18.2	18.3	91	92	60-140	1	
Chlorobenzene	ug/L	ND	20	20	18.8	20.2	94	101	60-140	7	
Chloroethane	ug/L	ND	20	20	17.8	19.2	89	96	60-140	7	
Chloroform	ug/L	ND	20	20	17.8	18.9	89	95	60-140	6	
Chloromethane	ug/L	ND	20	20	15.9	17.7	79	89	60-140	11	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.1	19.2	85	96	60-140	12	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	17.7	97	88	60-140	9	
Dibromochloromethane	ug/L	ND	20	20	18.9	17.8	94	89	60-140	6	
Dibromomethane	ug/L	ND	20	20	18.8	18.7	94	94	60-140	0	
Dichlorodifluoromethane	ug/L	ND	20	20	16.9	18.0	85	90	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	17.2	19.8	86	99	60-140	14	
Ethylbenzene	ug/L	ND	20	20	18.7	20.1	93	100	60-140	7	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.6	18.7	88	93	60-140	6	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.2	20.1	96	100	60-140	4	
m&p-Xylene	ug/L	ND	40	40	36.9	39.5	92	99	60-140	7	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.2	20.1	86	101	60-140	15	
Methylene Chloride	ug/L	ND	20	20	16.7	19.1	84	96	60-140	13	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088884 3088885

Parameter	Units	92508303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	16.6	18.9	83	95	60-140	13	
n-Propylbenzene	ug/L	ND	20	20	18.5	20.3	92	101	60-140	9	
Naphthalene	ug/L	ND	20	20	17.9	20.4	89	102	60-140	13	
o-Xylene	ug/L	ND	20	20	20.5	20.8	103	104	60-140	1	
sec-Butylbenzene	ug/L	ND	20	20	18.5	19.6	92	98	60-140	6	
Styrene	ug/L	ND	20	20	20.9	20.4	105	102	60-140	3	
tert-Butylbenzene	ug/L	ND	20	20	16.3	17.2	81	86	60-140	5	
Tetrachloroethene	ug/L	ND	20	20	18.6	18.2	93	91	60-140	2	
Toluene	ug/L	ND	20	20	20.5	16.9	103	85	60-140	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.2	20.1	91	101	60-140	10	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.8	18.1	89	91	60-140	2	
Trichloroethene	ug/L	ND	20	20	19.1	19.8	96	99	60-140	3	
Trichlorofluoromethane	ug/L	ND	20	20	17.0	18.4	85	92	60-140	8	
Vinyl chloride	ug/L	ND	20	20	18.0	19.4	90	97	60-140	8	
1,2-Dichloroethane-d4 (S)	%						95	95	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						101	89	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508713

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508713001	**13945_AC_Rd_20201201**	MADEPV	1587240	MADEP VPH	1587240
92508713001	**13945_AC_Rd_20201201**	MADEPV	1588008	MADEP VPH	1588008
92508713001	**13945_AC_Rd_20201201**	EPA 3010A	584787	EPA 6010D	584808
92508713001	**13945_AC_Rd_20201201**	SM 6200B	584319		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY — Pace Workorder Number or

WO# : 92508713

92508713

Company: Apex Companies
Address:
Billing Information:

Report To: Andrew Street
Email To: Andrew.Street@apexcos.com
Copy To:
Site Collection Info/Address: 13945 Asbury Chapel Rd
Customer Project Name/Number: 2020-L1-2448 Incident
State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone:
Email:
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Naomi Fretz
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:

Collected By (signature): Naomi Fretz
Turnaround Date Required: ASAP
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)

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 ______

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 6200B	MADEP VPH	Lead								Lab Sample # / Comments
13945.AC.RD.20201201	DW	G	12-01-20	1015				8	X	X	X								92508713 001

Lab Profile/Line:
Lab Sample Receipt Checklist:
- Custody Seals Present/Intact Y N NA — NA circled
- Custody Signatures Present Y N NA — NA circled
- Collector Signature Present Y N NA — Y circled
- Bottles Intact Y N NA — Y circled
- Correct Bottles Y N NA — Y circled
- Sufficient Volume Y N NA — Y circled
- Samples Received on Ice Y N NA — Y circled
- VOA - Headspace Acceptable Y N NA — Y circled
- USDA Regulated Soils Y N NA — NA circled
- Samples in Holding Time Y N NA — Y circled
- Residual Chlorine Present Y N NA — NA circled
- Cl Strips: ______
- Sample pH Acceptable Y N NA — Y circled
- pH Strips: ______
- Sulfide Present Y N NA — NA circled
- Lead Acetate Strips: ______

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet (circled) Blue Dry None
Packing Material Used: bubble wrap
Radchem sample(s) screened (<500 cpm): Y N NA (NA circled)

SHORT HOLDS PRESENT (<72 hours): Y N N/A (N circled)
Lab Tracking #: 2561069
Samples received via: FEDEX UPS Client (circled) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA (N circled)
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 5.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-1-20 1415	VS PACE HVL	12/1/20 1415

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

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

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

*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# : 92508713**

PM: AMB Due Date: 12/08/20

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)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 10, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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
Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508716001	**13835_AC_Rd_20201201**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	RDT	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

Sample: 13835_AC_Rd_20201201 **Lab ID: 92508716001** Collected: 12/01/20 11:00 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/06/20 01:33	12/06/20 01:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/06/20 01:33	12/06/20 01:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 20:29	12/09/20 20:29	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/06/20 01:33	12/06/20 01:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.1	%	70.0-130	1	12/06/20 01:33	12/06/20 01:33	615-59-8FID	
2,5-Dibromotoluene (FID)	99.8	%	70.0-130	1	12/09/20 20:29	12/09/20 20:29	615-59-8FID	
2,5-Dibromotoluene (PID)	82.1	%	70.0-130	1	12/06/20 01:33	12/06/20 01:33	615-59-8PID	
2,5-Dibromotoluene (PID)	100	%	70.0-130	1	12/09/20 20:29	12/09/20 20:29	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	12/05/20 01:40	12/06/20 23:58	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 18:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 18:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 18:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 18:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 18:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 18:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 18:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 18:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 18:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 18:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 18:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 18:45	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 18:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 18:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 18:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 18:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 18:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 18:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 18:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 18:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 18:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 18:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 18:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 18:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 18:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 18:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 18:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 18:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 18:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 18:45	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

Sample: 13835_AC_Rd_20201201 **Lab ID: 92508716001** Collected: 12/01/20 11:00 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 18:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 18:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 18:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 18:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 18:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 18:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 18:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 18:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 18:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 18:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 18:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 18:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 18:45	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 18:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 18:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 18:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 18:45	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 18:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 18:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 18:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 18:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 18:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 18:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 18:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 18:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 18:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 18:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 18:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 18:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 18:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/03/20 18:45	17060-07-0	
4-Bromofluorobenzene (S)	84	%	70-130	1		12/03/20 18:45	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/03/20 18:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

QC Batch: 1587240
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508716001

METHOD BLANK: R3601131-3 Matrix: Water
Associated Lab Samples: 92508716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/05/20 18:21	
Aliphatic (C09-C12)	ug/L	ND	100	12/05/20 18:21	
Total VPH	ug/L	ND	100	12/05/20 18:21	
2,5-Dibromotoluene (FID)	%	79.9	70.0-130	12/05/20 18:21	
2,5-Dibromotoluene (PID)	%	73.1	70.0-130	12/05/20 18:21	

LABORATORY CONTROL SAMPLE & LCSD: R3601131-1 R3601131-2

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	1020	84.2	85.0	70.0-130	0.985	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1360	95.0	97.1	70.0-130	2.23	25	
Total VPH	ug/L	2800	2530	2570	90.4	91.8	70.0-130	1.57	25	
2,5-Dibromotoluene (FID)	%				83.6	84.9	70.0-130			
2,5-Dibromotoluene (PID)	%				78.7	79.6	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

QC Batch: 1588008
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508716001

METHOD BLANK: R3601876-2 Matrix: Water
Associated Lab Samples: 92508716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/09/20 06:27	
2,5-Dibromotoluene (FID)	%	92.7	70.0-130	12/09/20 06:27	
2,5-Dibromotoluene (PID)	%	90.4	70.0-130	12/09/20 06:27	

LABORATORY CONTROL SAMPLE & LCSD: R3601876-1 R3601876-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	200	228	232	114	116	70.0-130	1.74	25	
2,5-Dibromotoluene (FID)	%				102	90.7	70.0-130			
2,5-Dibromotoluene (PID)	%				103	88.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

QC Batch: 584787
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508716001

METHOD BLANK: 3091446 Matrix: Water
Associated Lab Samples: 92508716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/05/20 16:42	

LABORATORY CONTROL SAMPLE: 3091447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	259	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3091448 3091449

Parameter	Units	92507565004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	207	262	83	105	75-125	23	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

QC Batch: 584319
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508716001

METHOD BLANK: 3088882 Matrix: Water
Associated Lab Samples: 92508716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/03/20 14:17	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/03/20 14:17	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/03/20 14:17	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
1,3-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
2,2-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
2-Chlorotoluene	ug/L	ND	0.50	12/03/20 14:17	
4-Chlorotoluene	ug/L	ND	0.50	12/03/20 14:17	
Benzene	ug/L	ND	0.50	12/03/20 14:17	
Bromobenzene	ug/L	ND	0.50	12/03/20 14:17	
Bromochloromethane	ug/L	ND	0.50	12/03/20 14:17	
Bromodichloromethane	ug/L	ND	0.50	12/03/20 14:17	
Bromoform	ug/L	ND	0.50	12/03/20 14:17	
Bromomethane	ug/L	ND	5.0	12/03/20 14:17	
Carbon tetrachloride	ug/L	ND	0.50	12/03/20 14:17	
Chlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
Chloroethane	ug/L	ND	1.0	12/03/20 14:17	
Chloroform	ug/L	ND	0.50	12/03/20 14:17	
Chloromethane	ug/L	ND	1.0	12/03/20 14:17	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
Dibromochloromethane	ug/L	ND	0.50	12/03/20 14:17	
Dibromomethane	ug/L	ND	0.50	12/03/20 14:17	
Dichlorodifluoromethane	ug/L	ND	0.50	12/03/20 14:17	
Diisopropyl ether	ug/L	ND	0.50	12/03/20 14:17	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

METHOD BLANK: 3088882 Matrix: Water
Associated Lab Samples: 92508716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/03/20 14:17	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/03/20 14:17	
m&p-Xylene	ug/L	ND	1.0	12/03/20 14:17	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/03/20 14:17	
Methylene Chloride	ug/L	ND	2.0	12/03/20 14:17	
n-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
n-Propylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Naphthalene	ug/L	ND	2.0	12/03/20 14:17	
o-Xylene	ug/L	ND	0.50	12/03/20 14:17	
sec-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Styrene	ug/L	ND	0.50	12/03/20 14:17	
tert-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Tetrachloroethene	ug/L	ND	0.50	12/03/20 14:17	
Toluene	ug/L	ND	0.50	12/03/20 14:17	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
Trichloroethene	ug/L	ND	0.50	12/03/20 14:17	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/20 14:17	
Vinyl chloride	ug/L	ND	1.0	12/03/20 14:17	
1,2-Dichloroethane-d4 (S)	%	91	70-130	12/03/20 14:17	
4-Bromofluorobenzene (S)	%	96	70-130	12/03/20 14:17	
Toluene-d8 (S)	%	99	70-130	12/03/20 14:17	

LABORATORY CONTROL SAMPLE: 3088883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,1-Trichloroethane	ug/L	50	42.2	84	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	63.6	127	60-140	
1,1,2-Trichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethane	ug/L	50	46.6	93	60-140	
1,1-Dichloroethene	ug/L	50	42.4	85	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	58.2	116	60-140	
1,2,4-Trichlorobenzene	ug/L	50	45.3	91	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.3	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.5	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	60-140	
1,2-Dichlorobenzene	ug/L	50	44.3	89	60-140	
1,2-Dichloroethane	ug/L	50	40.2	80	60-140	
1,2-Dichloropropane	ug/L	50	50.8	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

LABORATORY CONTROL SAMPLE: 3088883

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	60.6	121	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	44.6	89	60-140	
2-Chlorotoluene	ug/L	50	50.2	100	60-140	
4-Chlorotoluene	ug/L	50	49.4	99	60-140	
Benzene	ug/L	50	59.4	119	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	42.3	85	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	59.2	118	60-140	
Bromomethane	ug/L	50	41.8	84	60-140	
Carbon tetrachloride	ug/L	50	46.4	93	60-140	
Chlorobenzene	ug/L	50	49.1	98	60-140	
Chloroethane	ug/L	50	37.3	75	60-140	
Chloroform	ug/L	50	40.8	82	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Dibromochloromethane	ug/L	50	64.2	128	60-140	
Dibromomethane	ug/L	50	55.9	112	60-140	
Dichlorodifluoromethane	ug/L	50	39.3	79	60-140	
Diisopropyl ether	ug/L	50	47.4	95	60-140	
Ethylbenzene	ug/L	50	50.1	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.8	86	60-140	
Isopropylbenzene (Cumene)	ug/L	50	60.5	121	60-140	
m&p-Xylene	ug/L	100	99.7	100	60-140	
Methyl-tert-butyl ether	ug/L	50	41.6	83	60-140	
Methylene Chloride	ug/L	50	41.7	83	60-140	
n-Butylbenzene	ug/L	50	45.2	90	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	46.2	92	60-140	
o-Xylene	ug/L	50	62.2	124	60-140	
sec-Butylbenzene	ug/L	50	49.0	98	60-140	
Styrene	ug/L	50	64.1	128	60-140	
tert-Butylbenzene	ug/L	50	42.4	85	60-140	
Tetrachloroethene	ug/L	50	51.1	102	60-140	
Toluene	ug/L	50	49.9	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.1	84	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Trichloroethene	ug/L	50	48.8	98	60-140	
Trichlorofluoromethane	ug/L	50	37.9	76	60-140	
Vinyl chloride	ug/L	50	41.9	84	60-140	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			125	70-130	
Toluene-d8 (S)	%			94	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088884 3088885

Parameter	Units	92508303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.8	19.7	94	98	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.0	19.6	85	98	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.4	21.3	107	106	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.1	18.4	91	92	60-140	1	
1,1-Dichloroethane	ug/L	ND	20	20	18.4	20.7	92	104	60-140	12	
1,1-Dichloroethene	ug/L	ND	20	20	18.2	20.4	91	102	60-140	11	
1,1-Dichloropropene	ug/L	ND	20	20	17.2	21.1	86	106	60-140	21	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.6	18.3	83	92	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.3	20.1	97	101	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.7	18.0	83	90	60-140	8	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.3	18.2	86	91	60-140	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.0	22.0	100	110	60-140	10	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.5	17.2	97	86	60-140	12	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.4	19.0	97	95	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	16.2	17.5	81	87	60-140	8	
1,2-Dichloropropane	ug/L	ND	20	20	20.5	19.7	103	98	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.1	19.2	95	96	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.1	18.6	91	93	60-140	3	
1,3-Dichloropropane	ug/L	ND	20	20	19.6	18.0	98	90	60-140	9	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.7	18.8	88	94	60-140	6	
2,2-Dichloropropane	ug/L	ND	20	20	16.2	18.3	81	92	60-140	12	
2-Chlorotoluene	ug/L	ND	20	20	20.8	20.1	104	101	60-140	3	
4-Chlorotoluene	ug/L	ND	20	20	18.1	19.1	91	96	60-140	5	
Benzene	ug/L	ND	20	20	18.8	20.5	94	102	60-140	8	
Bromobenzene	ug/L	ND	20	20	18.6	20.2	93	101	60-140	8	
Bromochloromethane	ug/L	ND	20	20	17.1	20.7	86	103	60-140	19	
Bromodichloromethane	ug/L	ND	20	20	17.8	16.8	89	84	60-140	6	
Bromoform	ug/L	ND	20	20	17.4	18.2	87	91	60-140	5	
Bromomethane	ug/L	ND	20	20	15.4	20.0	77	100	60-140	26	
Carbon tetrachloride	ug/L	ND	20	20	18.2	18.3	91	92	60-140	1	
Chlorobenzene	ug/L	ND	20	20	18.8	20.2	94	101	60-140	7	
Chloroethane	ug/L	ND	20	20	17.8	19.2	89	96	60-140	7	
Chloroform	ug/L	ND	20	20	17.8	18.9	89	95	60-140	6	
Chloromethane	ug/L	ND	20	20	15.9	17.7	79	89	60-140	11	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.1	19.2	85	96	60-140	12	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	17.7	97	88	60-140	9	
Dibromochloromethane	ug/L	ND	20	20	18.9	17.8	94	89	60-140	6	
Dibromomethane	ug/L	ND	20	20	18.8	18.7	94	94	60-140	0	
Dichlorodifluoromethane	ug/L	ND	20	20	16.9	18.0	85	90	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	17.2	19.8	86	99	60-140	14	
Ethylbenzene	ug/L	ND	20	20	18.7	20.1	93	100	60-140	7	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.6	18.7	88	93	60-140	6	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.2	20.1	96	100	60-140	4	
m&p-Xylene	ug/L	ND	40	40	36.9	39.5	92	99	60-140	7	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.2	20.1	86	101	60-140	15	
Methylene Chloride	ug/L	ND	20	20	16.7	19.1	84	96	60-140	13	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088884 3088885

Parameter	Units	92508303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	16.6	18.9	83	95	60-140	13	
n-Propylbenzene	ug/L	ND	20	20	18.5	20.3	92	101	60-140	9	
Naphthalene	ug/L	ND	20	20	17.9	20.4	89	102	60-140	13	
o-Xylene	ug/L	ND	20	20	20.5	20.8	103	104	60-140	1	
sec-Butylbenzene	ug/L	ND	20	20	18.5	19.6	92	98	60-140	6	
Styrene	ug/L	ND	20	20	20.9	20.4	105	102	60-140	3	
tert-Butylbenzene	ug/L	ND	20	20	16.3	17.2	81	86	60-140	5	
Tetrachloroethene	ug/L	ND	20	20	18.6	18.2	93	91	60-140	2	
Toluene	ug/L	ND	20	20	20.5	16.9	103	85	60-140	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.2	20.1	91	101	60-140	10	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.8	18.1	89	91	60-140	2	
Trichloroethene	ug/L	ND	20	20	19.1	19.8	96	99	60-140	3	
Trichlorofluoromethane	ug/L	ND	20	20	17.0	18.4	85	92	60-140	8	
Vinyl chloride	ug/L	ND	20	20	18.0	19.4	90	97	60-140	8	
1,2-Dichloroethane-d4 (S)	%						95	95	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						101	89	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508716

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508716001	**13835_AC_Rd_20201201**	MADEPV	1587240	MADEP VPH	1587240
92508716001	**13835_AC_Rd_20201201**	MADEPV	1588008	MADEP VPH	1588008
92508716001	**13835_AC_Rd_20201201**	EPA 3010A	584787	EPA 6010D	584808
92508716001	**13835_AC_Rd_20201201**	SM 6200B	584319		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ON

WO# : 92508716

92508716

Container P

er or

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 13835 Asbury Chapel Rd
Customer Project Name/Number: 2020-U-2448 Incident	State: NC County/City: Huntersville Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP 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:

** 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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead							Lab Sample # / Comments
13835_AC_RD_20201201	DW	G	12-1-20	1100				8	X	X	X							92508716 001

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:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap

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

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

Lab Tracking #: 2560522

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92706H
Cooler 1 Temp Upon Receipt: 5.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12/01/20 1415	VS PACE HV	12/1/20 1415
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

***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 #

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						14										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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 09, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508717001	**14401_HC_RD_20201201**	MADEP VPH	BMB	6	PAN
		EPA 6010D	RDT	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

Sample: 14401_HC_RD_20201201 **Lab ID: 92508717001** Collected: 12/01/20 09:40 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/07/20 18:54	12/07/20 18:54		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/07/20 18:54	12/07/20 18:54		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/07/20 18:54	12/07/20 18:54	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/07/20 18:54	12/07/20 18:54	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.6	%	70.0-130	1	12/07/20 18:54	12/07/20 18:54	615-59-8FID	
2,5-Dibromotoluene (PID)	80.3	%	70.0-130	1	12/07/20 18:54	12/07/20 18:54	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**5.8**	ug/L	5.0	1	12/05/20 01:40	12/07/20 00:02	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/03/20 19:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/03/20 19:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/03/20 19:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/03/20 19:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/03/20 19:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/03/20 19:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/03/20 19:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/03/20 19:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/03/20 19:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/03/20 19:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/03/20 19:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/03/20 19:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/03/20 19:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/03/20 19:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 19:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/03/20 19:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/03/20 19:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/03/20 19:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/03/20 19:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/03/20 19:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 19:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 19:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/03/20 19:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/03/20 19:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/03/20 19:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/03/20 19:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/03/20 19:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 19:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/03/20 19:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 19:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/03/20 19:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/03/20 19:03	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

Sample: 14401_HC_RD_20201201 **Lab ID: 92508717001** Collected: 12/01/20 09:40 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	0.50	1		12/03/20 19:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 19:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/03/20 19:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/03/20 19:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/03/20 19:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/03/20 19:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/03/20 19:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/03/20 19:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/03/20 19:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/03/20 19:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/03/20 19:03	103-65-1	
Styrene	ND	ug/L	0.50	1		12/03/20 19:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 19:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/03/20 19:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/03/20 19:03	127-18-4	
Toluene	ND	ug/L	0.50	1		12/03/20 19:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 19:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/03/20 19:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/03/20 19:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/03/20 19:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/03/20 19:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/03/20 19:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/03/20 19:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 19:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/03/20 19:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/03/20 19:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/03/20 19:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/03/20 19:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/03/20 19:03	17060-07-0	
4-Bromofluorobenzene (S)	88	%	70-130	1		12/03/20 19:03	460-00-4	
Toluene-d8 (S)	86	%	70-130	1		12/03/20 19:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

QC Batch: 1587907
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508717001

METHOD BLANK: R3601495-3 Matrix: Water
Associated Lab Samples: 92508717001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/07/20 16:43	
Aliphatic (C09-C12)	ug/L	ND	100	12/07/20 16:43	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/07/20 16:43	
Total VPH	ug/L	ND	100	12/07/20 16:43	
2,5-Dibromotoluene (FID)	%	81	70.0-130	12/07/20 16:43	
2,5-Dibromotoluene (PID)	%	73.2	70.0-130	12/07/20 16:43	

LABORATORY CONTROL SAMPLE & LCSD: R3601495-1 R3601495-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1120	95.8	93.3	70.0-130	2.64	25	
Aliphatic (C09-C12)	ug/L	1400	1280	1250	91.4	89.3	70.0-130	2.37	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	169	168	84.5	84.0	70.0-130	0.593	25	
Total VPH	ug/L	2800	2600	2540	92.9	90.7	70.0-130	2.33	25	
2,5-Dibromotoluene (FID)	%				87.7	84.7	70.0-130			
2,5-Dibromotoluene (PID)	%				81.9	78.8	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

QC Batch: 584787
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508717001

METHOD BLANK: 3091446 Matrix: Water
Associated Lab Samples: 92508717001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/05/20 16:42	

LABORATORY CONTROL SAMPLE: 3091447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	259	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3091448 3091449

Parameter	Units	92507565004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	207	262	83	105	75-125	23	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

QC Batch: 584319
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508717001

METHOD BLANK: 3088882 Matrix: Water
Associated Lab Samples: 92508717001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
1,1-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/03/20 14:17	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/03/20 14:17	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/03/20 14:17	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichloroethane	ug/L	ND	0.50	12/03/20 14:17	
1,2-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
1,3-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
2,2-Dichloropropane	ug/L	ND	0.50	12/03/20 14:17	
2-Chlorotoluene	ug/L	ND	0.50	12/03/20 14:17	
4-Chlorotoluene	ug/L	ND	0.50	12/03/20 14:17	
Benzene	ug/L	ND	0.50	12/03/20 14:17	
Bromobenzene	ug/L	ND	0.50	12/03/20 14:17	
Bromochloromethane	ug/L	ND	0.50	12/03/20 14:17	
Bromodichloromethane	ug/L	ND	0.50	12/03/20 14:17	
Bromoform	ug/L	ND	0.50	12/03/20 14:17	
Bromomethane	ug/L	ND	5.0	12/03/20 14:17	
Carbon tetrachloride	ug/L	ND	0.50	12/03/20 14:17	
Chlorobenzene	ug/L	ND	0.50	12/03/20 14:17	
Chloroethane	ug/L	ND	1.0	12/03/20 14:17	
Chloroform	ug/L	ND	0.50	12/03/20 14:17	
Chloromethane	ug/L	ND	1.0	12/03/20 14:17	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
Dibromochloromethane	ug/L	ND	0.50	12/03/20 14:17	
Dibromomethane	ug/L	ND	0.50	12/03/20 14:17	
Dichlorodifluoromethane	ug/L	ND	0.50	12/03/20 14:17	
Diisopropyl ether	ug/L	ND	0.50	12/03/20 14:17	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

METHOD BLANK: 3088882 Matrix: Water
Associated Lab Samples: 92508717001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/03/20 14:17	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/03/20 14:17	
m&p-Xylene	ug/L	ND	1.0	12/03/20 14:17	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/03/20 14:17	
Methylene Chloride	ug/L	ND	2.0	12/03/20 14:17	
n-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
n-Propylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Naphthalene	ug/L	ND	2.0	12/03/20 14:17	
o-Xylene	ug/L	ND	0.50	12/03/20 14:17	
sec-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Styrene	ug/L	ND	0.50	12/03/20 14:17	
tert-Butylbenzene	ug/L	ND	0.50	12/03/20 14:17	
Tetrachloroethene	ug/L	ND	0.50	12/03/20 14:17	
Toluene	ug/L	ND	0.50	12/03/20 14:17	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 14:17	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 14:17	
Trichloroethene	ug/L	ND	0.50	12/03/20 14:17	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/20 14:17	
Vinyl chloride	ug/L	ND	1.0	12/03/20 14:17	
1,2-Dichloroethane-d4 (S)	%	91	70-130	12/03/20 14:17	
4-Bromofluorobenzene (S)	%	96	70-130	12/03/20 14:17	
Toluene-d8 (S)	%	99	70-130	12/03/20 14:17	

LABORATORY CONTROL SAMPLE: 3088883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.3	101	60-140	
1,1,1-Trichloroethane	ug/L	50	42.2	84	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	63.6	127	60-140	
1,1,2-Trichloroethane	ug/L	50	48.1	96	60-140	
1,1-Dichloroethane	ug/L	50	46.6	93	60-140	
1,1-Dichloroethene	ug/L	50	42.4	85	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	44.5	89	60-140	
1,2,3-Trichloropropane	ug/L	50	58.2	116	60-140	
1,2,4-Trichlorobenzene	ug/L	50	45.3	91	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.3	95	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.5	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	60-140	
1,2-Dichlorobenzene	ug/L	50	44.3	89	60-140	
1,2-Dichloroethane	ug/L	50	40.2	80	60-140	
1,2-Dichloropropane	ug/L	50	50.8	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

LABORATORY CONTROL SAMPLE: 3088883

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	60.6	121	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	44.6	89	60-140	
2-Chlorotoluene	ug/L	50	50.2	100	60-140	
4-Chlorotoluene	ug/L	50	49.4	99	60-140	
Benzene	ug/L	50	59.4	119	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	42.3	85	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	59.2	118	60-140	
Bromomethane	ug/L	50	41.8	84	60-140	
Carbon tetrachloride	ug/L	50	46.4	93	60-140	
Chlorobenzene	ug/L	50	49.1	98	60-140	
Chloroethane	ug/L	50	37.3	75	60-140	
Chloroform	ug/L	50	40.8	82	60-140	
Chloromethane	ug/L	50	40.0	80	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Dibromochloromethane	ug/L	50	64.2	128	60-140	
Dibromomethane	ug/L	50	55.9	112	60-140	
Dichlorodifluoromethane	ug/L	50	39.3	79	60-140	
Diisopropyl ether	ug/L	50	47.4	95	60-140	
Ethylbenzene	ug/L	50	50.1	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	42.8	86	60-140	
Isopropylbenzene (Cumene)	ug/L	50	60.5	121	60-140	
m&p-Xylene	ug/L	100	99.7	100	60-140	
Methyl-tert-butyl ether	ug/L	50	41.6	83	60-140	
Methylene Chloride	ug/L	50	41.7	83	60-140	
n-Butylbenzene	ug/L	50	45.2	90	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	46.2	92	60-140	
o-Xylene	ug/L	50	62.2	124	60-140	
sec-Butylbenzene	ug/L	50	49.0	98	60-140	
Styrene	ug/L	50	64.1	128	60-140	
tert-Butylbenzene	ug/L	50	42.4	85	60-140	
Tetrachloroethene	ug/L	50	51.1	102	60-140	
Toluene	ug/L	50	49.9	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.1	84	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Trichloroethene	ug/L	50	48.8	98	60-140	
Trichlorofluoromethane	ug/L	50	37.9	76	60-140	
Vinyl chloride	ug/L	50	41.9	84	60-140	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			125	70-130	
Toluene-d8 (S)	%			94	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088884 3088885

Parameter	Units	92508303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.8	19.7	94	98	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.0	19.6	85	98	60-140	14	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.4	21.3	107	106	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.1	18.4	91	92	60-140	1	
1,1-Dichloroethane	ug/L	ND	20	20	18.4	20.7	92	104	60-140	12	
1,1-Dichloroethene	ug/L	ND	20	20	18.2	20.4	91	102	60-140	11	
1,1-Dichloropropene	ug/L	ND	20	20	17.2	21.1	86	106	60-140	21	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.6	18.3	83	92	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.3	20.1	97	101	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.7	18.0	83	90	60-140	8	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.3	18.2	86	91	60-140	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.0	22.0	100	110	60-140	10	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.5	17.2	97	86	60-140	12	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.4	19.0	97	95	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	16.2	17.5	81	87	60-140	8	
1,2-Dichloropropane	ug/L	ND	20	20	20.5	19.7	103	98	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.1	19.2	95	96	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.1	18.6	91	93	60-140	3	
1,3-Dichloropropane	ug/L	ND	20	20	19.6	18.0	98	90	60-140	9	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.7	18.8	88	94	60-140	6	
2,2-Dichloropropane	ug/L	ND	20	20	16.2	18.3	81	92	60-140	12	
2-Chlorotoluene	ug/L	ND	20	20	20.8	20.1	104	101	60-140	3	
4-Chlorotoluene	ug/L	ND	20	20	18.1	19.1	91	96	60-140	5	
Benzene	ug/L	ND	20	20	18.8	20.5	94	102	60-140	8	
Bromobenzene	ug/L	ND	20	20	18.6	20.2	93	101	60-140	8	
Bromochloromethane	ug/L	ND	20	20	17.1	20.7	86	103	60-140	19	
Bromodichloromethane	ug/L	ND	20	20	17.8	16.8	89	84	60-140	6	
Bromoform	ug/L	ND	20	20	17.4	18.2	87	91	60-140	5	
Bromomethane	ug/L	ND	20	20	15.4	20.0	77	100	60-140	26	
Carbon tetrachloride	ug/L	ND	20	20	18.2	18.3	91	92	60-140	1	
Chlorobenzene	ug/L	ND	20	20	18.8	20.2	94	101	60-140	7	
Chloroethane	ug/L	ND	20	20	17.8	19.2	89	96	60-140	7	
Chloroform	ug/L	ND	20	20	17.8	18.9	89	95	60-140	6	
Chloromethane	ug/L	ND	20	20	15.9	17.7	79	89	60-140	11	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.1	19.2	85	96	60-140	12	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	17.7	97	88	60-140	9	
Dibromochloromethane	ug/L	ND	20	20	18.9	17.8	94	89	60-140	6	
Dibromomethane	ug/L	ND	20	20	18.8	18.7	94	94	60-140	0	
Dichlorodifluoromethane	ug/L	ND	20	20	16.9	18.0	85	90	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	17.2	19.8	86	99	60-140	14	
Ethylbenzene	ug/L	ND	20	20	18.7	20.1	93	100	60-140	7	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.6	18.7	88	93	60-140	6	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.2	20.1	96	100	60-140	4	
m&p-Xylene	ug/L	ND	40	40	36.9	39.5	92	99	60-140	7	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.2	20.1	86	101	60-140	15	
Methylene Chloride	ug/L	ND	20	20	16.7	19.1	84	96	60-140	13	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088884 3088885

Parameter	Units	92508303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	16.6	18.9	83	95	60-140	13	
n-Propylbenzene	ug/L	ND	20	20	18.5	20.3	92	101	60-140	9	
Naphthalene	ug/L	ND	20	20	17.9	20.4	89	102	60-140	13	
o-Xylene	ug/L	ND	20	20	20.5	20.8	103	104	60-140	1	
sec-Butylbenzene	ug/L	ND	20	20	18.5	19.6	92	98	60-140	6	
Styrene	ug/L	ND	20	20	20.9	20.4	105	102	60-140	3	
tert-Butylbenzene	ug/L	ND	20	20	16.3	17.2	81	86	60-140	5	
Tetrachloroethene	ug/L	ND	20	20	18.6	18.2	93	91	60-140	2	
Toluene	ug/L	ND	20	20	20.5	16.9	103	85	60-140	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.2	20.1	91	101	60-140	10	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.8	18.1	89	91	60-140	2	
Trichloroethene	ug/L	ND	20	20	19.1	19.8	96	99	60-140	3	
Trichlorofluoromethane	ug/L	ND	20	20	17.0	18.4	85	92	60-140	8	
Vinyl chloride	ug/L	ND	20	20	18.0	19.4	90	97	60-140	8	
1,2-Dichloroethane-d4 (S)	%						95	95	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						101	89	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508717

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508717001	**14401_HC_RD_20201201**	MADEPV	1587907	MADEP VPH	1587907
92508717001	**14401_HC_RD_20201201**	EPA 3010A	584787	EPA 6010D	584808
92508717001	**14401_HC_RD_20201201**	SM 6200B	584319		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE (mber or

WO# : 92508717

92508717

Containe

** 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 _____

Company: Apex Companies	Billing Information:	
Address:		
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com	
Copy To:	Site Collection Info/Address: 14401 Huntersville Concord Rd	
Customer Project Name/Number: 2020-LI-2448 Trident	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET	
Phone: Email:	Site/Facility ID #:	Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP	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) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 62028	Analyses: MADEP VPH	Analyses: Lead
14401_NC_RD_20201201	DW	G	12-01-20	0940				8	X	X	X

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: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

92508717
001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap

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

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

Lab Tracking #: 2560521

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92106A
Cooler 1 Temp Upon Receipt: 5.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-1-20 1415	VSPACE HVL	12/1/20 1415
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

*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# : 92508717**

PM: AMB Due Date: 12/08/20

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)	VOAX (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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 10, 2020

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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
Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508822001	**DUP-1**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508822002	**FB-1**	MADEP VPH	ACG, BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92508822003	**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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

Sample: DUP-1 **Lab ID: 92508822001** Collected: 12/01/20 00:00 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/06/20 02:07	12/06/20 02:07		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/06/20 02:07	12/06/20 02:07		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 21:02	12/09/20 21:02	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/06/20 02:07	12/06/20 02:07	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.5	%	70.0-130	1	12/06/20 02:07	12/06/20 02:07	615-59-8FID	
2,5-Dibromotoluene (FID)	100	%	70.0-130	1	12/09/20 21:02	12/09/20 21:02	615-59-8FID	
2,5-Dibromotoluene (PID)	79.1	%	70.0-130	1	12/06/20 02:07	12/06/20 02:07	615-59-8PID	
2,5-Dibromotoluene (PID)	99.2	%	70.0-130	1	12/09/20 21:02	12/09/20 21:02	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	12/05/20 01:40	12/07/20 00:05	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 01:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 01:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 01:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 01:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 01:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 01:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 01:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 01:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 01:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 01:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 01:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 01:19	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/04/20 01:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 01:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 01:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 01:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 01:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 01:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 01:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 01:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 01:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 01:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 01:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 01:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 01:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 01:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 01:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 01:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 01:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 01:19	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

Sample: DUP-1 **Lab ID: 92508822001** Collected: 12/01/20 00:00 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 01:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 01:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 01:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 01:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 01:19	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 01:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 01:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 01:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 01:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 01:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 01:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 01:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 01:19	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 01:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 01:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 01:19	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 01:19	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 01:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 01:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 01:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 01:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 01:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 01:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 01:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 01:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 01:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 01:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 01:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 01:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 01:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/04/20 01:19	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/04/20 01:19	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		12/04/20 01:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

Sample: FB-1 **Lab ID: 92508822002** Collected: 12/01/20 00:00 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/05/20 18:54	12/05/20 18:54		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/05/20 18:54	12/05/20 18:54		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 17:42	12/09/20 17:42	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/05/20 18:54	12/05/20 18:54	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	81.6	%	70.0-130	1	12/05/20 18:54	12/05/20 18:54	615-59-8FID	
2,5-Dibromotoluene (FID)	95.0	%	70.0-130	1	12/09/20 17:42	12/09/20 17:42	615-59-8FID	
2,5-Dibromotoluene (PID)	74.7	%	70.0-130	1	12/05/20 18:54	12/05/20 18:54	615-59-8PID	
2,5-Dibromotoluene (PID)	94.9	%	70.0-130	1	12/09/20 17:42	12/09/20 17:42	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	12/07/20 11:53	12/08/20 10:13	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 00:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 00:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 00:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 00:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 00:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 00:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 00:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 00:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 00:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 00:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 00:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 00:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/04/20 00:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 00:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 00:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 00:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 00:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 00:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 00:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 00:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 00:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 00:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 00:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 00:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 00:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 00:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 00:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 00:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 00:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 00:07	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

Sample: FB-1 **Lab ID: 92508822002** Collected: 12/01/20 00:00 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 00:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 00:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 00:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 00:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 00:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 00:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 00:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 00:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 00:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 00:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 00:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 00:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 00:07	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 00:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 00:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 00:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 00:07	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 00:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 00:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 00:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 00:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 00:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 00:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 00:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 00:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 00:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 00:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 00:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 00:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 00:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		12/04/20 00:07	17060-07-0	
4-Bromofluorobenzene (S)	92	%	70-130	1		12/04/20 00:07	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/04/20 00:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

Sample: Trip Blank **Lab ID: 92508822003** Collected: 12/01/20 00:00 Received: 12/01/20 14:15 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

Sample: Trip Blank **Lab ID: 92508822003** Collected: 12/01/20 00:00 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 00:25	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 00:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 00:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 00:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 00:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 00:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 00:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 00:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 00:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 00:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 00:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 00:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 00:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 00:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/04/20 00:25	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/04/20 00:25	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/04/20 00:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

QC Batch: 1587240
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508822001, 92508822002

METHOD BLANK: R3601131-3 Matrix: Water
Associated Lab Samples: 92508822001, 92508822002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/05/20 18:21	
Aliphatic (C09-C12)	ug/L	ND	100	12/05/20 18:21	
Total VPH	ug/L	ND	100	12/05/20 18:21	
2,5-Dibromotoluene (FID)	%	79.9	70.0-130	12/05/20 18:21	
2,5-Dibromotoluene (PID)	%	73.1	70.0-130	12/05/20 18:21	

LABORATORY CONTROL SAMPLE & LCSD: R3601131-1 R3601131-2

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	1020	84.2	85.0	70.0-130	0.985	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1360	95.0	97.1	70.0-130	2.23	25	
Total VPH	ug/L	2800	2530	2570	90.4	91.8	70.0-130	1.57	25	
2,5-Dibromotoluene (FID)	%				83.6	84.9	70.0-130			
2,5-Dibromotoluene (PID)	%				78.7	79.6	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

QC Batch: 1588008
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92508822001, 92508822002

METHOD BLANK: R3601876-2 Matrix: Water
Associated Lab Samples: 92508822001, 92508822002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/09/20 06:27	
2,5-Dibromotoluene (FID)	%	92.7	70.0-130	12/09/20 06:27	
2,5-Dibromotoluene (PID)	%	90.4	70.0-130	12/09/20 06:27	

LABORATORY CONTROL SAMPLE & LCSD: R3601876-1 R3601876-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	200	228	232	114	116	70.0-130	1.74	25	
2,5-Dibromotoluene (FID)	%				102	90.7	70.0-130			
2,5-Dibromotoluene (PID)	%				103	88.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

QC Batch: 584787
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508822001

METHOD BLANK: 3091446 Matrix: Water
Associated Lab Samples: 92508822001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/05/20 16:42	

LABORATORY CONTROL SAMPLE: 3091447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	259	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3091448 3091449

Parameter	Units	92507565004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	250	250	207	262	83	105	75-125	23	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

QC Batch: 584978
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508822002

METHOD BLANK: 3092217 Matrix: Water
Associated Lab Samples: 92508822002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/08/20 09:47	

LABORATORY CONTROL SAMPLE: 3092218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	264	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092219 3092220

Parameter	Units	92508823001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	6.6	250	250	271	268	106	104	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

QC Batch: 584369
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92508822001, 92508822002, 92508822003

METHOD BLANK: 3089088 Matrix: Water
Associated Lab Samples: 92508822001, 92508822002, 92508822003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/03/20 23:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/03/20 23:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/03/20 23:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
1,3-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
2,2-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
2-Chlorotoluene	ug/L	ND	0.50	12/03/20 23:49	
4-Chlorotoluene	ug/L	ND	0.50	12/03/20 23:49	
Benzene	ug/L	ND	0.50	12/03/20 23:49	
Bromobenzene	ug/L	ND	0.50	12/03/20 23:49	
Bromochloromethane	ug/L	ND	0.50	12/03/20 23:49	
Bromodichloromethane	ug/L	ND	0.50	12/03/20 23:49	
Bromoform	ug/L	ND	0.50	12/03/20 23:49	
Bromomethane	ug/L	ND	5.0	12/03/20 23:49	
Carbon tetrachloride	ug/L	ND	0.50	12/03/20 23:49	
Chlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
Chloroethane	ug/L	ND	1.0	12/03/20 23:49	
Chloroform	ug/L	ND	0.50	12/03/20 23:49	
Chloromethane	ug/L	ND	1.0	12/03/20 23:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
Dibromochloromethane	ug/L	ND	0.50	12/03/20 23:49	
Dibromomethane	ug/L	ND	0.50	12/03/20 23:49	
Dichlorodifluoromethane	ug/L	ND	0.50	12/03/20 23:49	
Diisopropyl ether	ug/L	ND	0.50	12/03/20 23:49	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

METHOD BLANK: 3089088 Matrix: Water
Associated Lab Samples: 92508822001, 92508822002, 92508822003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/03/20 23:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/03/20 23:49	
m&p-Xylene	ug/L	ND	1.0	12/03/20 23:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/03/20 23:49	
Methylene Chloride	ug/L	ND	2.0	12/03/20 23:49	
n-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
n-Propylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Naphthalene	ug/L	ND	2.0	12/03/20 23:49	
o-Xylene	ug/L	ND	0.50	12/03/20 23:49	
sec-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Styrene	ug/L	ND	0.50	12/03/20 23:49	
tert-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Tetrachloroethene	ug/L	ND	0.50	12/03/20 23:49	
Toluene	ug/L	ND	0.50	12/03/20 23:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
Trichloroethene	ug/L	ND	0.50	12/03/20 23:49	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/20 23:49	
Vinyl chloride	ug/L	ND	1.0	12/03/20 23:49	
1,2-Dichloroethane-d4 (S)	%	94	70-130	12/03/20 23:49	
4-Bromofluorobenzene (S)	%	98	70-130	12/03/20 23:49	
Toluene-d8 (S)	%	103	70-130	12/03/20 23:49	

LABORATORY CONTROL SAMPLE: 3089089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,1-Trichloroethane	ug/L	50	49.7	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	58.8	118	60-140	
1,1,2-Trichloroethane	ug/L	50	49.3	99	60-140	
1,1-Dichloroethane	ug/L	50	52.7	105	60-140	
1,1-Dichloroethene	ug/L	50	51.1	102	60-140	
1,1-Dichloropropene	ug/L	50	49.6	99	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.1	96	60-140	
1,2,3-Trichloropropane	ug/L	50	55.5	111	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.5	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.6	91	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.2	110	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.8	96	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	47.3	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	45.2	90	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

LABORATORY CONTROL SAMPLE: 3089089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.7	95	60-140	
1,3-Dichloropropane	ug/L	50	53.5	107	60-140	
1,4-Dichlorobenzene	ug/L	50	47.8	96	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	48.0	96	60-140	
4-Chlorotoluene	ug/L	50	46.9	94	60-140	
Benzene	ug/L	50	46.0	92	60-140	
Bromobenzene	ug/L	50	47.6	95	60-140	
Bromochloromethane	ug/L	50	54.2	108	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	47.0	94	60-140	
Bromomethane	ug/L	50	53.3	107	60-140	
Carbon tetrachloride	ug/L	50	46.5	93	60-140	
Chlorobenzene	ug/L	50	47.7	95	60-140	
Chloroethane	ug/L	50	43.7	87	60-140	
Chloroform	ug/L	50	49.4	99	60-140	
Chloromethane	ug/L	50	45.3	91	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	52.5	105	60-140	
Dibromomethane	ug/L	50	47.4	95	60-140	
Dichlorodifluoromethane	ug/L	50	43.9	88	60-140	
Diisopropyl ether	ug/L	50	51.8	104	60-140	
Ethylbenzene	ug/L	50	46.6	93	60-140	
Hexachloro-1,3-butadiene	ug/L	50	45.4	91	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	53.9	108	60-140	
Methylene Chloride	ug/L	50	49.0	98	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	52.3	105	60-140	
o-Xylene	ug/L	50	49.0	98	60-140	
sec-Butylbenzene	ug/L	50	46.9	94	60-140	
Styrene	ug/L	50	49.1	98	60-140	
tert-Butylbenzene	ug/L	50	39.9	80	60-140	
Tetrachloroethene	ug/L	50	53.0	106	60-140	
Toluene	ug/L	50	44.8	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.5	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	60-140	
Trichloroethene	ug/L	50	46.7	93	60-140	
Trichlorofluoromethane	ug/L	50	43.8	88	60-140	
Vinyl chloride	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3089090 3089091

Parameter	Units	92508822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.1	19.7	100	98	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.1	20.3	101	101	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	20.0	104	100	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.5	18.9	97	94	60-140	3	
1,1-Dichloroethane	ug/L	ND	20	20	21.3	21.5	107	107	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	20.3	101	101	60-140	0	
1,1-Dichloropropene	ug/L	ND	20	20	22.2	21.5	111	107	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.6	19.7	108	98	60-140	9	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.7	19.1	99	95	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.5	19.4	108	97	60-140	10	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.6	19.4	98	97	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.4	20.1	107	101	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.9	20.4	104	102	60-140	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.1	19.3	101	97	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	17.5	17.2	87	86	60-140	1	
1,2-Dichloropropane	ug/L	ND	20	20	22.2	21.4	111	107	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	20.1	104	101	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.4	101	97	60-140	4	
1,3-Dichloropropane	ug/L	ND	20	20	21.7	21.0	109	105	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.8	19.7	104	99	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3	
2-Chlorotoluene	ug/L	ND	20	20	21.6	20.8	108	104	60-140	4	
4-Chlorotoluene	ug/L	ND	20	20	20.3	19.7	102	99	60-140	3	
Benzene	ug/L	ND	20	20	21.2	21.1	106	105	60-140	1	
Bromobenzene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2	
Bromochloromethane	ug/L	ND	20	20	20.7	20.3	104	102	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	18.6	18.8	93	94	60-140	1	
Bromoform	ug/L	ND	20	20	17.8	17.4	89	87	60-140	2	
Bromomethane	ug/L	ND	20	20	22.3	23.3	112	116	60-140	4	
Carbon tetrachloride	ug/L	ND	20	20	19.1	19.8	95	99	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.5	20.8	103	104	60-140	1	
Chloroethane	ug/L	ND	20	20	19.3	19.5	96	97	60-140	1	
Chloroform	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1	
Chloromethane	ug/L	ND	20	20	19.4	18.9	97	95	60-140	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.0	104	105	60-140	1	
Dibromochloromethane	ug/L	ND	20	20	21.0	20.2	105	101	60-140	4	
Dibromomethane	ug/L	ND	20	20	18.8	18.9	94	95	60-140	1	
Dichlorodifluoromethane	ug/L	ND	20	20	17.9	17.5	89	87	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.5	20.5	102	102	60-140	0	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.6	21.1	113	105	60-140	7	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	20.9	105	104	60-140	0	
m&p-Xylene	ug/L	ND	40	40	40.4	40.7	101	102	60-140	1	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.2	18.7	96	94	60-140	3	
Methylene Chloride	ug/L	ND	20	20	19.2	18.4	96	92	60-140	5	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3089090 3089091

Parameter	Units	92508822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	21.7	20.7	109	104	60-140	5	
n-Propylbenzene	ug/L	ND	20	20	21.7	21.0	108	105	60-140	3	
Naphthalene	ug/L	ND	20	20	22.4	19.1	112	95	60-140	16	
o-Xylene	ug/L	ND	20	20	20.9	20.9	105	104	60-140	0	
sec-Butylbenzene	ug/L	ND	20	20	21.7	20.8	108	104	60-140	4	
Styrene	ug/L	ND	20	20	20.7	20.8	104	104	60-140	0	
tert-Butylbenzene	ug/L	ND	20	20	18.3	18.1	91	91	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	20.0	20.1	100	101	60-140	1	
Toluene	ug/L	ND	20	20	19.9	20.1	100	101	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	21.2	107	106	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.0	18.7	95	94	60-140	2	
Trichloroethene	ug/L	ND	20	20	20.6	20.1	103	100	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	18.9	18.6	95	93	60-140	2	
Vinyl chloride	ug/L	ND	20	20	19.6	19.9	98	100	60-140	1	
1,2-Dichloroethane-d4 (S)	%						89	89	70-130		
4-Bromofluorobenzene (S)	%						95	97	70-130		
Toluene-d8 (S)	%						100	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92508822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508822001	**DUP-1**	MADEPV	1587240	MADEP VPH	1587240
92508822001	**DUP-1**	MADEPV	1588008	MADEP VPH	1588008
92508822002	**FB-1**	MADEPV	1587240	MADEP VPH	1587240
92508822002	**FB-1**	MADEPV	1588008	MADEP VPH	1588008
92508822001	**DUP-1**	EPA 3010A	584787	EPA 6010D	584808
92508822002	**FB-1**	EPA 3010A	584978	EPA 6010D	585022
92508822001	**DUP-1**	SM 6200B	584369		
92508822002	**FB-1**	SM 6200B	584369		
92508822003	**Trip Blank**	SM 6200B	584369		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ONLY- Aff

WO# : 92508822

92508822

ALL S

Container Preserva

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 2020-LI-2448 Incident	State: NC / Huntersville County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP 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: _____

** 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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead	Lab Sample # / Comments
												92508822
DUP-1	DW	G	12-01-20	-				3	X	X	X	001
FB-1	OT	G	↓	"				3	X	X	X	002
Trip Blank	OT	G	↓	"				2	X			003

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: _____	
Sample pH Acceptable	(Y) N NA
pH Strips: _____	
Sulfide Present	Y N (NA)
Lead Acetate Strips: _____	

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap

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

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

Lab Tracking #: 2561068

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 92464

Cooler 1 Temp Upon Receipt: 5.9 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 5.8 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-1-20 1415	VS PACE MTL	12/1/2020 1415
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

*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# : 92508822**

PM: AMB Due Date: 12/08/20

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)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1						1 ✓										7													
2						1 ✓										7													
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 10, 2020

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

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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
Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508823001	**13926B_HC_RD 20201201**	MADEP VPH	BMB, JAH	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

Sample: 13926B_HC_RD 20201201 **Lab ID: 92508823001** Collected: 12/01/20 12:10 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/05/20 19:27	12/05/20 19:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/05/20 19:27	12/05/20 19:27		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 14:23	12/09/20 14:23	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/05/20 19:27	12/05/20 19:27	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	82.0	%	70.0-130	1	12/05/20 19:27	12/05/20 19:27	615-59-8FID	
2,5-Dibromotoluene (FID)	98.7	%	70.0-130	1	12/09/20 14:23	12/09/20 14:23	615-59-8FID	
2,5-Dibromotoluene (PID)	74.8	%	70.0-130	1	12/05/20 19:27	12/05/20 19:27	615-59-8PID	
2,5-Dibromotoluene (PID)	96.3	%	70.0-130	1	12/09/20 14:23	12/09/20 14:23	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**6.6**	ug/L	5.0	1	12/07/20 11:53	12/08/20 09:53	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 01:36	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 01:36	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 01:36	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 01:36	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 01:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 01:36	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 01:36	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 01:36	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 01:36	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 01:36	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 01:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 01:36	75-00-3	
Chloroform	**6.8**	ug/L	0.50	1		12/04/20 01:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 01:36	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 01:36	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 01:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 01:36	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 01:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 01:36	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 01:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 01:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 01:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 01:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 01:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 01:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 01:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 01:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 01:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 01:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 01:36	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

Sample: 13926B_HC_RD 20201201 **Lab ID: 92508823001** Collected: 12/01/20 12:10 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 01:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 01:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 01:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 01:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 01:36	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 01:36	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 01:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 01:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 01:36	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 01:36	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 01:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 01:36	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 01:36	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 01:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 01:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 01:36	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 01:36	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 01:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 01:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 01:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 01:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 01:36	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 01:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 01:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 01:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 01:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 01:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 01:36	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 01:36	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 01:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		12/04/20 01:36	17060-07-0	
4-Bromofluorobenzene (S)	89	%	70-130	1		12/04/20 01:36	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/04/20 01:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

QC Batch: 1587240
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508823001

METHOD BLANK: R3601131-3 Matrix: Water
Associated Lab Samples: 92508823001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/05/20 18:21	
Aliphatic (C09-C12)	ug/L	ND	100	12/05/20 18:21	
Total VPH	ug/L	ND	100	12/05/20 18:21	
2,5-Dibromotoluene (FID)	%	79.9	70.0-130	12/05/20 18:21	
2,5-Dibromotoluene (PID)	%	73.1	70.0-130	12/05/20 18:21	

LABORATORY CONTROL SAMPLE & LCSD: R3601131-1 R3601131-2

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	1020	84.2	85.0	70.0-130	0.985	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1360	95.0	97.1	70.0-130	2.23	25	
Total VPH	ug/L	2800	2530	2570	90.4	91.8	70.0-130	1.57	25	
2,5-Dibromotoluene (FID)	%				83.6	84.9	70.0-130			
2,5-Dibromotoluene (PID)	%				78.7	79.6	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

QC Batch: 1588008
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508823001

METHOD BLANK: R3601876-2 Matrix: Water
Associated Lab Samples: 92508823001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/09/20 06:27	
2,5-Dibromotoluene (FID)	%	92.7	70.0-130	12/09/20 06:27	
2,5-Dibromotoluene (PID)	%	90.4	70.0-130	12/09/20 06:27	

LABORATORY CONTROL SAMPLE & LCSD: R3601876-1 R3601876-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	200	228	232	114	116	70.0-130	1.74	25	
2,5-Dibromotoluene (FID)	%				102	90.7	70.0-130			
2,5-Dibromotoluene (PID)	%				103	88.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

QC Batch: 584978
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508823001

METHOD BLANK: 3092217 Matrix: Water
Associated Lab Samples: 92508823001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/08/20 09:47	

LABORATORY CONTROL SAMPLE: 3092218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	264	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092219 3092220

Parameter	Units	92508823001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	6.6	250	250	271	268	106	104	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

QC Batch: 584369
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508823001

METHOD BLANK: 3089088 Matrix: Water
Associated Lab Samples: 92508823001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/03/20 23:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/03/20 23:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/03/20 23:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
1,3-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
2,2-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
2-Chlorotoluene	ug/L	ND	0.50	12/03/20 23:49	
4-Chlorotoluene	ug/L	ND	0.50	12/03/20 23:49	
Benzene	ug/L	ND	0.50	12/03/20 23:49	
Bromobenzene	ug/L	ND	0.50	12/03/20 23:49	
Bromochloromethane	ug/L	ND	0.50	12/03/20 23:49	
Bromodichloromethane	ug/L	ND	0.50	12/03/20 23:49	
Bromoform	ug/L	ND	0.50	12/03/20 23:49	
Bromomethane	ug/L	ND	5.0	12/03/20 23:49	
Carbon tetrachloride	ug/L	ND	0.50	12/03/20 23:49	
Chlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
Chloroethane	ug/L	ND	1.0	12/03/20 23:49	
Chloroform	ug/L	ND	0.50	12/03/20 23:49	
Chloromethane	ug/L	ND	1.0	12/03/20 23:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
Dibromochloromethane	ug/L	ND	0.50	12/03/20 23:49	
Dibromomethane	ug/L	ND	0.50	12/03/20 23:49	
Dichlorodifluoromethane	ug/L	ND	0.50	12/03/20 23:49	
Diisopropyl ether	ug/L	ND	0.50	12/03/20 23:49	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

METHOD BLANK: 3089088 Matrix: Water
Associated Lab Samples: 92508823001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/03/20 23:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/03/20 23:49	
m&p-Xylene	ug/L	ND	1.0	12/03/20 23:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/03/20 23:49	
Methylene Chloride	ug/L	ND	2.0	12/03/20 23:49	
n-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
n-Propylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Naphthalene	ug/L	ND	2.0	12/03/20 23:49	
o-Xylene	ug/L	ND	0.50	12/03/20 23:49	
sec-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Styrene	ug/L	ND	0.50	12/03/20 23:49	
tert-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Tetrachloroethene	ug/L	ND	0.50	12/03/20 23:49	
Toluene	ug/L	ND	0.50	12/03/20 23:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
Trichloroethene	ug/L	ND	0.50	12/03/20 23:49	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/20 23:49	
Vinyl chloride	ug/L	ND	1.0	12/03/20 23:49	
1,2-Dichloroethane-d4 (S)	%	94	70-130	12/03/20 23:49	
4-Bromofluorobenzene (S)	%	98	70-130	12/03/20 23:49	
Toluene-d8 (S)	%	103	70-130	12/03/20 23:49	

LABORATORY CONTROL SAMPLE: 3089089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,1-Trichloroethane	ug/L	50	49.7	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	58.8	118	60-140	
1,1,2-Trichloroethane	ug/L	50	49.3	99	60-140	
1,1-Dichloroethane	ug/L	50	52.7	105	60-140	
1,1-Dichloroethene	ug/L	50	51.1	102	60-140	
1,1-Dichloropropene	ug/L	50	49.6	99	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.1	96	60-140	
1,2,3-Trichloropropane	ug/L	50	55.5	111	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.5	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.6	91	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.2	110	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.8	96	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	47.3	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	45.2	90	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

LABORATORY CONTROL SAMPLE: 3089089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.7	95	60-140	
1,3-Dichloropropane	ug/L	50	53.5	107	60-140	
1,4-Dichlorobenzene	ug/L	50	47.8	96	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	48.0	96	60-140	
4-Chlorotoluene	ug/L	50	46.9	94	60-140	
Benzene	ug/L	50	46.0	92	60-140	
Bromobenzene	ug/L	50	47.6	95	60-140	
Bromochloromethane	ug/L	50	54.2	108	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	47.0	94	60-140	
Bromomethane	ug/L	50	53.3	107	60-140	
Carbon tetrachloride	ug/L	50	46.5	93	60-140	
Chlorobenzene	ug/L	50	47.7	95	60-140	
Chloroethane	ug/L	50	43.7	87	60-140	
Chloroform	ug/L	50	49.4	99	60-140	
Chloromethane	ug/L	50	45.3	91	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	52.5	105	60-140	
Dibromomethane	ug/L	50	47.4	95	60-140	
Dichlorodifluoromethane	ug/L	50	43.9	88	60-140	
Diisopropyl ether	ug/L	50	51.8	104	60-140	
Ethylbenzene	ug/L	50	46.6	93	60-140	
Hexachloro-1,3-butadiene	ug/L	50	45.4	91	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	53.9	108	60-140	
Methylene Chloride	ug/L	50	49.0	98	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	52.3	105	60-140	
o-Xylene	ug/L	50	49.0	98	60-140	
sec-Butylbenzene	ug/L	50	46.9	94	60-140	
Styrene	ug/L	50	49.1	98	60-140	
tert-Butylbenzene	ug/L	50	39.9	80	60-140	
Tetrachloroethene	ug/L	50	53.0	106	60-140	
Toluene	ug/L	50	44.8	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.5	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	60-140	
Trichloroethene	ug/L	50	46.7	93	60-140	
Trichlorofluoromethane	ug/L	50	43.8	88	60-140	
Vinyl chloride	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3089090 3089091

Parameter	Units	92508822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.1	19.7	100	98	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.1	20.3	101	101	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	20.0	104	100	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.5	18.9	97	94	60-140	3	
1,1-Dichloroethane	ug/L	ND	20	20	21.3	21.5	107	107	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	20.3	101	101	60-140	0	
1,1-Dichloropropene	ug/L	ND	20	20	22.2	21.5	111	107	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.6	19.7	108	98	60-140	9	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.7	19.1	99	95	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.5	19.4	108	97	60-140	10	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.6	19.4	98	97	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.4	20.1	107	101	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.9	20.4	104	102	60-140	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.1	19.3	101	97	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	17.5	17.2	87	86	60-140	1	
1,2-Dichloropropane	ug/L	ND	20	20	22.2	21.4	111	107	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	20.1	104	101	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.4	101	97	60-140	4	
1,3-Dichloropropane	ug/L	ND	20	20	21.7	21.0	109	105	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.8	19.7	104	99	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3	
2-Chlorotoluene	ug/L	ND	20	20	21.6	20.8	108	104	60-140	4	
4-Chlorotoluene	ug/L	ND	20	20	20.3	19.7	102	99	60-140	3	
Benzene	ug/L	ND	20	20	21.2	21.1	106	105	60-140	1	
Bromobenzene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2	
Bromochloromethane	ug/L	ND	20	20	20.7	20.3	104	102	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	18.6	18.8	93	94	60-140	1	
Bromoform	ug/L	ND	20	20	17.8	17.4	89	87	60-140	2	
Bromomethane	ug/L	ND	20	20	22.3	23.3	112	116	60-140	4	
Carbon tetrachloride	ug/L	ND	20	20	19.1	19.8	95	99	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.5	20.8	103	104	60-140	1	
Chloroethane	ug/L	ND	20	20	19.3	19.5	96	97	60-140	1	
Chloroform	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1	
Chloromethane	ug/L	ND	20	20	19.4	18.9	97	95	60-140	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.0	104	105	60-140	1	
Dibromochloromethane	ug/L	ND	20	20	21.0	20.2	105	101	60-140	4	
Dibromomethane	ug/L	ND	20	20	18.8	18.9	94	95	60-140	1	
Dichlorodifluoromethane	ug/L	ND	20	20	17.9	17.5	89	87	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.5	20.5	102	102	60-140	0	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.6	21.1	113	105	60-140	7	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	20.9	105	104	60-140	0	
m&p-Xylene	ug/L	ND	40	40	40.4	40.7	101	102	60-140	1	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.2	18.7	96	94	60-140	3	
Methylene Chloride	ug/L	ND	20	20	19.2	18.4	96	92	60-140	5	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3089090 3089091

Parameter	Units	92508822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	21.7	20.7	109	104	60-140	5	
n-Propylbenzene	ug/L	ND	20	20	21.7	21.0	108	105	60-140	3	
Naphthalene	ug/L	ND	20	20	22.4	19.1	112	95	60-140	16	
o-Xylene	ug/L	ND	20	20	20.9	20.9	105	104	60-140	0	
sec-Butylbenzene	ug/L	ND	20	20	21.7	20.8	108	104	60-140	4	
Styrene	ug/L	ND	20	20	20.7	20.8	104	104	60-140	0	
tert-Butylbenzene	ug/L	ND	20	20	18.3	18.1	91	91	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	20.0	20.1	100	101	60-140	1	
Toluene	ug/L	ND	20	20	19.9	20.1	100	101	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	21.2	107	106	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.0	18.7	95	94	60-140	2	
Trichloroethene	ug/L	ND	20	20	20.6	20.1	103	100	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	18.9	18.6	95	93	60-140	2	
Vinyl chloride	ug/L	ND	20	20	19.6	19.9	98	100	60-140	1	
1,2-Dichloroethane-d4 (S)	%						89	89	70-130		
4-Bromofluorobenzene (S)	%						95	97	70-130		
Toluene-d8 (S)	%						100	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92508823

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508823001	**13926B_HC_RD 20201201**	MADEPV	1587240	MADEP VPH	1587240
92508823001	**13926B_HC_RD 20201201**	MADEPV	1588008	MADEP VPH	1588008
92508823001	**13926B_HC_RD 20201201**	EPA 3010A	584978	EPA 6010D	585022
92508823001	**13926B_HC_RD 20201201**	SM 6200B	584369		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

WO# : 92508823

92508823

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To:
Copy To:	Site Collection Info/Address: 13926B Huntersville Concord Rd
Customer Project Name/Number: 2020-LI-2448 Incident	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP 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:

** 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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 6200B	Analyses: MADEP VPH	Analyses: Lead
13926B HC RD 20201201	DW	G	12-1-20	1210				8	X	X	X

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:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

92508823 001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble wrap

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

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

Lab Tracking #: 2561072

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 5.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-1-20 1415	VS PACE HVL	12/1/20 1415
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

*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#: 92508823

PM: AMB Due Date: 12/08/20

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)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 10, 2020

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

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

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
Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

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
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508835001	**14226_HC_RD_20201201**	MADEP VPH	ACG, BMB	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

Sample: 14226_HC_RD_20201201 **Lab ID: 92508835001** Collected: 12/01/20 11:35 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV	Analytical Method: MADEP VPH Preparation Method: MADEPV Pace National - Mt. Juliet							
Aliphatic (C05-C08)	ND	ug/L	100	1	12/05/20 20:33	12/05/20 20:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/05/20 20:33	12/05/20 20:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/09/20 18:15	12/09/20 18:15	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/05/20 20:33	12/05/20 20:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.8	%	70.0-130	1	12/05/20 20:33	12/05/20 20:33	615-59-8FID	
2,5-Dibromotoluene (FID)	102	%	70.0-130	1	12/09/20 18:15	12/09/20 18:15	615-59-8FID	
2,5-Dibromotoluene (PID)	82.4	%	70.0-130	1	12/05/20 20:33	12/05/20 20:33	615-59-8PID	
2,5-Dibromotoluene (PID)	99.3	%	70.0-130	1	12/09/20 18:15	12/09/20 18:15	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	12/07/20 11:53	12/08/20 10:16	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/04/20 01:54	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/04/20 01:54	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/04/20 01:54	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/04/20 01:54	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/04/20 01:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/04/20 01:54	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/04/20 01:54	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/04/20 01:54	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/04/20 01:54	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/04/20 01:54	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/04/20 01:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/20 01:54	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/04/20 01:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/04/20 01:54	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 01:54	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/04/20 01:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/04/20 01:54	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/04/20 01:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/04/20 01:54	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/04/20 01:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 01:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 01:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/04/20 01:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/04/20 01:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/04/20 01:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/04/20 01:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/04/20 01:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 01:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/04/20 01:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 01:54	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

Sample: 14226_HC_RD_20201201 **Lab ID: 92508835001** Collected: 12/01/20 11:35 Received: 12/01/20 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
1,3-Dichloropropane	ND	ug/L	0.50	1		12/04/20 01:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/04/20 01:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/04/20 01:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 01:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/04/20 01:54	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/04/20 01:54	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/04/20 01:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/04/20 01:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/04/20 01:54	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/04/20 01:54	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/04/20 01:54	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/04/20 01:54	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/04/20 01:54	103-65-1	
Styrene	ND	ug/L	0.50	1		12/04/20 01:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 01:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/04/20 01:54	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/04/20 01:54	127-18-4	
Toluene	ND	ug/L	0.50	1		12/04/20 01:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 01:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/04/20 01:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/04/20 01:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/04/20 01:54	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/04/20 01:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/20 01:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/04/20 01:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 01:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/04/20 01:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/04/20 01:54	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/04/20 01:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/04/20 01:54	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/04/20 01:54	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/04/20 01:54	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/04/20 01:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

QC Batch: 1587240
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508835001

METHOD BLANK: R3601131-3 Matrix: Water
Associated Lab Samples: 92508835001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/05/20 18:21	
Aliphatic (C09-C12)	ug/L	ND	100	12/05/20 18:21	
Total VPH	ug/L	ND	100	12/05/20 18:21	
2,5-Dibromotoluene (FID)	%	79.9	70.0-130	12/05/20 18:21	
2,5-Dibromotoluene (PID)	%	73.1	70.0-130	12/05/20 18:21	

LABORATORY CONTROL SAMPLE & LCSD: R3601131-1 R3601131-2

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	1020	84.2	85.0	70.0-130	0.985	25	
Aliphatic (C09-C12)	ug/L	1400	1330	1360	95.0	97.1	70.0-130	2.23	25	
Total VPH	ug/L	2800	2530	2570	90.4	91.8	70.0-130	1.57	25	
2,5-Dibromotoluene (FID)	%				83.6	84.9	70.0-130			
2,5-Dibromotoluene (PID)	%				78.7	79.6	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

QC Batch: 1588008
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92508835001

METHOD BLANK: R3601876-2 Matrix: Water
Associated Lab Samples: 92508835001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/09/20 06:27	
2,5-Dibromotoluene (FID)	%	92.7	70.0-130	12/09/20 06:27	
2,5-Dibromotoluene (PID)	%	90.4	70.0-130	12/09/20 06:27	

LABORATORY CONTROL SAMPLE & LCSD: R3601876-1 R3601876-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	200	228	232	114	116	70.0-130	1.74	25	
2,5-Dibromotoluene (FID)	%				102	90.7	70.0-130			
2,5-Dibromotoluene (PID)	%				103	88.0	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

QC Batch: 584978
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92508835001

METHOD BLANK: 3092217 Matrix: Water
Associated Lab Samples: 92508835001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/08/20 09:47	

LABORATORY CONTROL SAMPLE: 3092218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	264	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3092219 3092220

Parameter	Units	92508823001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	6.6	250	250	271	268	106	104	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

QC Batch: 584369
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92508835001

METHOD BLANK: 3089088 Matrix: Water
Associated Lab Samples: 92508835001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
1,1-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/03/20 23:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/03/20 23:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/03/20 23:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichloroethane	ug/L	ND	0.50	12/03/20 23:49	
1,2-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
1,3-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
2,2-Dichloropropane	ug/L	ND	0.50	12/03/20 23:49	
2-Chlorotoluene	ug/L	ND	0.50	12/03/20 23:49	
4-Chlorotoluene	ug/L	ND	0.50	12/03/20 23:49	
Benzene	ug/L	ND	0.50	12/03/20 23:49	
Bromobenzene	ug/L	ND	0.50	12/03/20 23:49	
Bromochloromethane	ug/L	ND	0.50	12/03/20 23:49	
Bromodichloromethane	ug/L	ND	0.50	12/03/20 23:49	
Bromoform	ug/L	ND	0.50	12/03/20 23:49	
Bromomethane	ug/L	ND	5.0	12/03/20 23:49	
Carbon tetrachloride	ug/L	ND	0.50	12/03/20 23:49	
Chlorobenzene	ug/L	ND	0.50	12/03/20 23:49	
Chloroethane	ug/L	ND	1.0	12/03/20 23:49	
Chloroform	ug/L	ND	0.50	12/03/20 23:49	
Chloromethane	ug/L	ND	1.0	12/03/20 23:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
Dibromochloromethane	ug/L	ND	0.50	12/03/20 23:49	
Dibromomethane	ug/L	ND	0.50	12/03/20 23:49	
Dichlorodifluoromethane	ug/L	ND	0.50	12/03/20 23:49	
Diisopropyl ether	ug/L	ND	0.50	12/03/20 23:49	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

METHOD BLANK: 3089088 Matrix: Water
Associated Lab Samples: 92508835001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/03/20 23:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/03/20 23:49	
m&p-Xylene	ug/L	ND	1.0	12/03/20 23:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/03/20 23:49	
Methylene Chloride	ug/L	ND	2.0	12/03/20 23:49	
n-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
n-Propylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Naphthalene	ug/L	ND	2.0	12/03/20 23:49	
o-Xylene	ug/L	ND	0.50	12/03/20 23:49	
sec-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Styrene	ug/L	ND	0.50	12/03/20 23:49	
tert-Butylbenzene	ug/L	ND	0.50	12/03/20 23:49	
Tetrachloroethene	ug/L	ND	0.50	12/03/20 23:49	
Toluene	ug/L	ND	0.50	12/03/20 23:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/03/20 23:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/03/20 23:49	
Trichloroethene	ug/L	ND	0.50	12/03/20 23:49	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/20 23:49	
Vinyl chloride	ug/L	ND	1.0	12/03/20 23:49	
1,2-Dichloroethane-d4 (S)	%	94	70-130	12/03/20 23:49	
4-Bromofluorobenzene (S)	%	98	70-130	12/03/20 23:49	
Toluene-d8 (S)	%	103	70-130	12/03/20 23:49	

LABORATORY CONTROL SAMPLE: 3089089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,1-Trichloroethane	ug/L	50	49.7	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	58.8	118	60-140	
1,1,2-Trichloroethane	ug/L	50	49.3	99	60-140	
1,1-Dichloroethane	ug/L	50	52.7	105	60-140	
1,1-Dichloroethene	ug/L	50	51.1	102	60-140	
1,1-Dichloropropene	ug/L	50	49.6	99	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.1	96	60-140	
1,2,3-Trichloropropane	ug/L	50	55.5	111	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.5	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.6	91	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.2	110	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.8	96	60-140	
1,2-Dichloroethane	ug/L	50	41.5	83	60-140	
1,2-Dichloropropane	ug/L	50	47.3	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	45.2	90	60-140	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

LABORATORY CONTROL SAMPLE: 3089089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.7	95	60-140	
1,3-Dichloropropane	ug/L	50	53.5	107	60-140	
1,4-Dichlorobenzene	ug/L	50	47.8	96	60-140	
2,2-Dichloropropane	ug/L	50	48.9	98	60-140	
2-Chlorotoluene	ug/L	50	48.0	96	60-140	
4-Chlorotoluene	ug/L	50	46.9	94	60-140	
Benzene	ug/L	50	46.0	92	60-140	
Bromobenzene	ug/L	50	47.6	95	60-140	
Bromochloromethane	ug/L	50	54.2	108	60-140	
Bromodichloromethane	ug/L	50	44.8	90	60-140	
Bromoform	ug/L	50	47.0	94	60-140	
Bromomethane	ug/L	50	53.3	107	60-140	
Carbon tetrachloride	ug/L	50	46.5	93	60-140	
Chlorobenzene	ug/L	50	47.7	95	60-140	
Chloroethane	ug/L	50	43.7	87	60-140	
Chloroform	ug/L	50	49.4	99	60-140	
Chloromethane	ug/L	50	45.3	91	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	52.5	105	60-140	
Dibromomethane	ug/L	50	47.4	95	60-140	
Dichlorodifluoromethane	ug/L	50	43.9	88	60-140	
Diisopropyl ether	ug/L	50	51.8	104	60-140	
Ethylbenzene	ug/L	50	46.6	93	60-140	
Hexachloro-1,3-butadiene	ug/L	50	45.4	91	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	53.9	108	60-140	
Methylene Chloride	ug/L	50	49.0	98	60-140	
n-Butylbenzene	ug/L	50	47.0	94	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	52.3	105	60-140	
o-Xylene	ug/L	50	49.0	98	60-140	
sec-Butylbenzene	ug/L	50	46.9	94	60-140	
Styrene	ug/L	50	49.1	98	60-140	
tert-Butylbenzene	ug/L	50	39.9	80	60-140	
Tetrachloroethene	ug/L	50	53.0	106	60-140	
Toluene	ug/L	50	44.8	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.5	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	60-140	
Trichloroethene	ug/L	50	46.7	93	60-140	
Trichlorofluoromethane	ug/L	50	43.8	88	60-140	
Vinyl chloride	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3089090 3089091

Parameter	Units	92508822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.1	19.7	100	98	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.1	20.3	101	101	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	20.0	104	100	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.5	18.9	97	94	60-140	3	
1,1-Dichloroethane	ug/L	ND	20	20	21.3	21.5	107	107	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	20.3	101	101	60-140	0	
1,1-Dichloropropene	ug/L	ND	20	20	22.2	21.5	111	107	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.6	19.7	108	98	60-140	9	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.7	19.1	99	95	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.5	19.4	108	97	60-140	10	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.6	19.4	98	97	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.4	20.1	107	101	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.9	20.4	104	102	60-140	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.1	19.3	101	97	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	17.5	17.2	87	86	60-140	1	
1,2-Dichloropropane	ug/L	ND	20	20	22.2	21.4	111	107	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	20.1	104	101	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	19.4	101	97	60-140	4	
1,3-Dichloropropane	ug/L	ND	20	20	21.7	21.0	109	105	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.8	19.7	104	99	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	21.0	20.5	105	102	60-140	3	
2-Chlorotoluene	ug/L	ND	20	20	21.6	20.8	108	104	60-140	4	
4-Chlorotoluene	ug/L	ND	20	20	20.3	19.7	102	99	60-140	3	
Benzene	ug/L	ND	20	20	21.2	21.1	106	105	60-140	1	
Bromobenzene	ug/L	ND	20	20	20.8	20.3	104	102	60-140	2	
Bromochloromethane	ug/L	ND	20	20	20.7	20.3	104	102	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	18.6	18.8	93	94	60-140	1	
Bromoform	ug/L	ND	20	20	17.8	17.4	89	87	60-140	2	
Bromomethane	ug/L	ND	20	20	22.3	23.3	112	116	60-140	4	
Carbon tetrachloride	ug/L	ND	20	20	19.1	19.8	95	99	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.5	20.8	103	104	60-140	1	
Chloroethane	ug/L	ND	20	20	19.3	19.5	96	97	60-140	1	
Chloroform	ug/L	ND	20	20	20.5	20.3	102	101	60-140	1	
Chloromethane	ug/L	ND	20	20	19.4	18.9	97	95	60-140	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.4	19.9	102	99	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.0	104	105	60-140	1	
Dibromochloromethane	ug/L	ND	20	20	21.0	20.2	105	101	60-140	4	
Dibromomethane	ug/L	ND	20	20	18.8	18.9	94	95	60-140	1	
Dichlorodifluoromethane	ug/L	ND	20	20	17.9	17.5	89	87	60-140	2	
Diisopropyl ether	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20.5	20.5	102	102	60-140	0	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.6	21.1	113	105	60-140	7	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	20.9	105	104	60-140	0	
m&p-Xylene	ug/L	ND	40	40	40.4	40.7	101	102	60-140	1	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.2	18.7	96	94	60-140	3	
Methylene Chloride	ug/L	ND	20	20	19.2	18.4	96	92	60-140	5	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3089090 3089091

Parameter	Units	92508822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	21.7	20.7	109	104	60-140	5	
n-Propylbenzene	ug/L	ND	20	20	21.7	21.0	108	105	60-140	3	
Naphthalene	ug/L	ND	20	20	22.4	19.1	112	95	60-140	16	
o-Xylene	ug/L	ND	20	20	20.9	20.9	105	104	60-140	0	
sec-Butylbenzene	ug/L	ND	20	20	21.7	20.8	108	104	60-140	4	
Styrene	ug/L	ND	20	20	20.7	20.8	104	104	60-140	0	
tert-Butylbenzene	ug/L	ND	20	20	18.3	18.1	91	91	60-140	1	
Tetrachloroethene	ug/L	ND	20	20	20.0	20.1	100	101	60-140	1	
Toluene	ug/L	ND	20	20	19.9	20.1	100	101	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	21.2	107	106	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.0	18.7	95	94	60-140	2	
Trichloroethene	ug/L	ND	20	20	20.6	20.1	103	100	60-140	2	
Trichlorofluoromethane	ug/L	ND	20	20	18.9	18.6	95	93	60-140	2	
Vinyl chloride	ug/L	ND	20	20	19.6	19.9	98	100	60-140	1	
1,2-Dichloroethane-d4 (S)	%						89	89	70-130		
4-Bromofluorobenzene (S)	%						95	97	70-130		
Toluene-d8 (S)	%						100	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92508835

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508835001	**14226_HC_RD_20201201**	MADEPV	1587240	MADEP VPH	1587240
92508835001	**14226_HC_RD_20201201**	MADEPV	1588008	MADEP VPH	1588008
92508835001	**14226_HC_RD_20201201**	EPA 3010A	584978	EPA 6010D	585022
92508835001	**14226_HC_RD_20201201**	SM 6200B	584369		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB L **WO# : 92508835** · Number or

92508835

Cont

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 14226 Huntersville Concord Rd
Customer Project Name/Number: 2020-LI-2448 Incident	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fretz	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fretz	Turnaround Date Required: ASAP 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)

** 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 Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 6200B	MADEP VPH	Lead	Lab Profile/Line:
14226_NC_RD_20201201	DW	G	12-01-20	1135				8	X	X	X	001

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)
Sample pH Acceptable	(Y)	N	NA
Sulfide Present	Y	N	(NA)

Cl Strips: _____
pH Strips: _____
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:
92508835

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Bubble wrap

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

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

Lab Tracking #: 2561070

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92106U
Cooler 1 Temp Upon Receipt: 2.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-1-20 1415	VS PACE HK	12/1/20 1415
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: _____ of: _____

Pace Analytical	Sample Condition Upon Receipt(SCUR)	Page 2 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

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

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

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

Project # **WO#: 92508835**

PM: AMB Due Date: 12/08/20

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)	SPST-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																													
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2020

Alex Testoff
Montrose Environmental Group, Inc.
400 Northridge Rd.
Suite 400
Atlanta, GA 30350

RE: Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Dear Alex Testoff:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 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 Analytical Services - Charlotte

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

Sincerely,

Nicole Gasiorowski

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92508815001	**20336-SW-1**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92508815002	**20336-SW-2**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92508815003	**20336-SW-3**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92508815004	**20336-SW-4**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92508815005	**20336-SW-5**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92508815006	**20336-SW-6**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92508815007	**20336-SW-7**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92508815008	**20336-SW-Seep**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92508815009	**20336-SW-Confluence**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92508815010	**20336-SW-Dup**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92508815011	**20336-Trip Blank**	EPA 8260D	SAS	9	PASI-C

PASI-C = Pace Analytical Services - Charlotte

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-SW-1 **Lab ID: 92508815001** Collected: 12/01/20 14:50 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/03/20 20:52		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		12/03/20 20:52	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 15:48	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 15:48	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 15:48	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 15:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 15:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 15:48	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		12/02/20 15:48	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/02/20 15:48	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/02/20 15:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 22, 2020

Alex Testoff
Montrose Environmental Group, Inc.
400 Northridge Rd.
Suite 400
Atlanta, GA 30350

RE: Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Dear Alex Testoff:

Enclosed are the analytical results for sample(s) received by the laboratory on December 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 Analytical Services - Charlotte

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

Sincerely,

Nicole Gasiorowski

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92512726001	**20352-SW-1**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92512726002	**20352-SW-2**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92512726003	**20352-SW-3**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92512726004	**20352-SW-4**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92512726005	**20352-SW-5**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92512726006	**20352-SW-6**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92512726007	**20352-SW-7**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92512726008	**20352-Seep**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92512726009	**20352-Confluence**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92512726010	**20352-SW-DUP**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92512726011	**20352-Trip Blank**	EPA 8260D	SAS	9	PASI-C

PASI-C = Pace Analytical Services - Charlotte

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-SW-1 **Lab ID: 92512726001** Collected: 12/17/20 15:25 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/18/20 19:12		
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		12/18/20 19:12	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/18/20 16:17	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/20 16:17	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/20 16:17	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/18/20 16:17	1330-20-7	MS
m&p-Xylene	ND	ug/L	2.0	1		12/18/20 16:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/18/20 16:17	95-47-6	M1
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/18/20 16:17	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		12/18/20 16:17	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/18/20 16:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-SW-2 **Lab ID: 92512726002** Collected: 12/17/20 15:10 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/18/20 20:08		
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		12/18/20 20:08	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/18/20 16:35	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/20 16:35	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/20 16:35	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/18/20 16:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/18/20 16:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/18/20 16:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		12/18/20 16:35	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		12/18/20 16:35	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/18/20 16:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-SW-3 **Lab ID: 92512726003** Collected: 12/17/20 14:20 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/18/20 20:36		
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		12/18/20 20:36	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/18/20 16:52	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/20 16:52	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/20 16:52	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/18/20 16:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/18/20 16:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/18/20 16:52	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/18/20 16:52	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		12/18/20 16:52	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/18/20 16:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-SW-4 **Lab ID: 92512726004** Collected: 12/17/20 13:55 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/18/20 21:04		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		12/18/20 21:04	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/18/20 17:10	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/20 17:10	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/20 17:10	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/18/20 17:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/18/20 17:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/18/20 17:10	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		12/18/20 17:10	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/18/20 17:10	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		12/18/20 17:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-SW-5 **Lab ID: 92512726005** Collected: 12/17/20 13:35 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/18/20 21:33		
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		12/18/20 21:33	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/18/20 17:28	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/20 17:28	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/20 17:28	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/18/20 17:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/18/20 17:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/18/20 17:28	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/18/20 17:28	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/18/20 17:28	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/18/20 17:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-SW-6 **Lab ID: 92512726006** Collected: 12/17/20 13:15 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/18/20 22:01		
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		12/18/20 22:01	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/18/20 17:46	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/20 17:46	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/20 17:46	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/18/20 17:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/18/20 17:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/18/20 17:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/18/20 17:46	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		12/18/20 17:46	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		12/18/20 17:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-SW-7 **Lab ID: 92512726007** Collected: 12/17/20 12:45 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/18/20 22:29		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		12/18/20 22:29	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/18/20 18:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/20 18:04	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/20 18:04	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/18/20 18:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/18/20 18:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/18/20 18:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/18/20 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		12/18/20 18:04	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/18/20 18:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-Seep **Lab ID: 92512726008** Collected: 12/17/20 14:40 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/18/20 22:57		
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		12/18/20 22:57	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/18/20 18:22	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/20 18:22	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/20 18:22	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/18/20 18:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/18/20 18:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/18/20 18:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		12/18/20 18:22	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/18/20 18:22	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		12/18/20 18:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-Confluence **Lab ID: 92512726009** Collected: 12/17/20 14:45 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/18/20 23:25		
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		12/18/20 23:25	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/18/20 18:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/20 18:41	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/20 18:41	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/18/20 18:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/18/20 18:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/18/20 18:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		12/18/20 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/18/20 18:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/18/20 18:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-SW-DUP **Lab ID: 92512726010** Collected: 12/17/20 12:00 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/18/20 23:53		
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		12/18/20 23:53	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/18/20 18:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/20 18:58	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/20 18:58	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/18/20 18:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/18/20 18:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/18/20 18:58	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/18/20 18:58	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		12/18/20 18:58	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		12/18/20 18:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Sample: 20352-Trip Blank **Lab ID: 92512726011** Collected: 12/17/20 00:00 Received: 12/17/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/21/20 13:39	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/21/20 13:39	100-41-4	
Toluene	ND	ug/L	1.0	1		12/21/20 13:39	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/21/20 13:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/20 13:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/20 13:39	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		12/21/20 13:39	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/21/20 13:39	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		12/21/20 13:39	2037-26-5	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

QC Batch: 588194 | 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: 92512726001, 92512726002, 92512726003, 92512726004, 92512726005, 92512726006, 92512726007, 92512726008, 92512726009, 92512726010

METHOD BLANK: 3108112 Matrix: Water
Associated Lab Samples: 92512726001, 92512726002, 92512726003, 92512726004, 92512726005, 92512726006, 92512726007, 92512726008, 92512726009, 92512726010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	12/18/20 14:32	
4-Bromofluorobenzene (S)	%	93	70-130	12/18/20 14:32	

LABORATORY CONTROL SAMPLE: 3108113

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)	%			96	70-130	

MATRIX SPIKE SAMPLE: 3108115

Parameter	Units	92512726002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	1	0.92	90	68-145	
4-Bromofluorobenzene (S)	%				92	70-130	

SAMPLE DUPLICATE: 3108114

Parameter	Units	92512726001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	.034J		
4-Bromofluorobenzene (S)	%	93	95		

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

QC Batch: 588218
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92512726011

METHOD BLANK: 3108234 Matrix: Water
Associated Lab Samples: 92512726011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/21/20 11:15	
Ethylbenzene	ug/L	ND	1.0	12/21/20 11:15	
m&p-Xylene	ug/L	ND	2.0	12/21/20 11:15	
o-Xylene	ug/L	ND	1.0	12/21/20 11:15	
Toluene	ug/L	ND	1.0	12/21/20 11:15	
Xylene (Total)	ug/L	ND	1.0	12/21/20 11:15	
1,2-Dichloroethane-d4 (S)	%	104	70-130	12/21/20 11:15	
4-Bromofluorobenzene (S)	%	97	70-130	12/21/20 11:15	
Toluene-d8 (S)	%	102	70-130	12/21/20 11:15	

LABORATORY CONTROL SAMPLE: 3108235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.6	99	70-130	
Ethylbenzene	ug/L	50	49.9	100	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
o-Xylene	ug/L	50	50.5	101	70-130	
Toluene	ug/L	50	49.4	99	70-130	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3108236 3108237

Parameter	Units	92512521003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L				547	545				0	
Ethylbenzene	ug/L				1210	1210				0	
m&p-Xylene	ug/L				8130	8130				0	
o-Xylene	ug/L				4440	4420				1	
Toluene	ug/L				1960	1950				0	
Xylene (Total)	ug/L				12600	12600				0	
1,2-Dichloroethane-d4 (S)	%						106	107	70-130		
4-Bromofluorobenzene (S)	%						102	102	70-130		
Toluene-d8 (S)	%						102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

QC Batch: 588219
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92512726001, 92512726002, 92512726003, 92512726004, 92512726005, 92512726006, 92512726007, 92512726008, 92512726009, 92512726010

METHOD BLANK: 3108243 Matrix: Water
Associated Lab Samples: 92512726001, 92512726002, 92512726003, 92512726004, 92512726005, 92512726006, 92512726007, 92512726008, 92512726009, 92512726010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/18/20 13:35	
Ethylbenzene	ug/L	ND	1.0	12/18/20 13:35	
m&p-Xylene	ug/L	ND	2.0	12/18/20 13:35	
o-Xylene	ug/L	ND	1.0	12/18/20 13:35	
Toluene	ug/L	ND	1.0	12/18/20 13:35	
Xylene (Total)	ug/L	ND	1.0	12/18/20 13:35	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/18/20 13:35	
4-Bromofluorobenzene (S)	%	97	70-130	12/18/20 13:35	
Toluene-d8 (S)	%	101	70-130	12/18/20 13:35	

LABORATORY CONTROL SAMPLE: 3108244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	44.4	89	70-130	
Ethylbenzene	ug/L	50	47.9	96	70-130	
m&p-Xylene	ug/L	100	96.6	97	70-130	
o-Xylene	ug/L	50	48.1	96	70-130	
Toluene	ug/L	50	46.1	92	70-130	
Xylene (Total)	ug/L	150	145	96	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3108245 3108246

Parameter	Units	92512726001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	14.0	14.0	70	70	67-150	0	
Ethylbenzene	ug/L	ND	20	20	14.2	13.7	71	69	68-143	4	
m&p-Xylene	ug/L	ND	40	40	28.3	28.3	71	71	53-157	0	
o-Xylene	ug/L	ND	20	20	14.0	13.4	70	67	68-143	5	M1
Toluene	ug/L	ND	20	20	14.2	14.4	71	72	47-157	1	
Xylene (Total)	ug/L	ND	60	60	42.4	41.7	71	69	66-145	2	MS
1,2-Dichloroethane-d4 (S)	%						103	105	70-130		
4-Bromofluorobenzene (S)	%						99	95	70-130		
Toluene-d8 (S)	%						97	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

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.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Northstone (12/17)
Pace Project No.: 92512726

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92512726001	**20352-SW-1**	EPA 5030B/8015C Mod.	588194		
92512726002	**20352-SW-2**	EPA 5030B/8015C Mod.	588194		
92512726003	**20352-SW-3**	EPA 5030B/8015C Mod.	588194		
92512726004	**20352-SW-4**	EPA 5030B/8015C Mod.	588194		
92512726005	**20352-SW-5**	EPA 5030B/8015C Mod.	588194		
92512726006	**20352-SW-6**	EPA 5030B/8015C Mod.	588194		
92512726007	**20352-SW-7**	EPA 5030B/8015C Mod.	588194		
92512726008	**20352-Seep**	EPA 5030B/8015C Mod.	588194		
92512726009	**20352-Confluence**	EPA 5030B/8015C Mod.	588194		
92512726010	**20352-SW-DUP**	EPA 5030B/8015C Mod.	588194		
92512726001	**20352-SW-1**	EPA 8260D	588219		
92512726002	**20352-SW-2**	EPA 8260D	588219		
92512726003	**20352-SW-3**	EPA 8260D	588219		
92512726004	**20352-SW-4**	EPA 8260D	588219		
92512726005	**20352-SW-5**	EPA 8260D	588219		
92512726006	**20352-SW-6**	EPA 8260D	588219		
92512726007	**20352-SW-7**	EPA 8260D	588219		
92512726008	**20352-Seep**	EPA 8260D	588219		
92512726009	**20352-Confluence**	EPA 8260D	588219		
92512726010	**20352-SW-DUP**	EPA 8260D	588219		
92512726011	**20352-Trip Blank**	EPA 8260D	588218		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ONLY- WO# : 92512726 or ALI 92512726

Company: Montrose - EPS	Billing Information: Jnicolette@montrose-env.com
Address: 400 Northridge Rd Suite 400 Sandy Springs GA 30350	
Report To: See "Email to"	Email To: clee@montrose-env.com
Copy To: CTates@montrose-env.com	Site Collection Info/Address: Huntersville
Customer Project Name/Number: Colonial Northstone/070PP-785322	State: NC / County/City: / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: 571-235-7127 Email:	Site/Facility ID #:
Collected By (print): Cole Cates / Peyton Hillman	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required:
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [X] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

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)

Container Preservative Type **: 3 3

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: BTEX Method 8026; TPH GRO Method 8015

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	BTEX	TPH	Lab Sample # / Comments
20352-SW-1	SW	G	12/17/20	1525				6	X	X	001
20352-SW-2	SW	G	12/17/20	1510				6	X	X	002
20352-SW-3	SW	G	12/17/20	1420				6	X	X	003
20352-SW-4	SW	G	12/17/20	1355				6	X	X	004
20352-SW-5	SW	G	12/17/20	1335				6	X	X	005
20352-SW-6	SW	G	12/17/20	1315				6	X	X	006
20352-SW-7	SW	G	12/17/20	1245				6	X	X	007
20352-Seep	SW	G	12/17/20	1440				6	X	X	008
20352-Confluence	SW	G	12/17/20	1445				6	X	X	009
20352-Trip Blank	W	—	12/17/20	LAB				2	X		011

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA	Date 12/17/20
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:		
Sulfide Present	Y N NA	
Lead Acetate Strips:		

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:
SW = Surface Water
G = Grab
W = Water

Type of Ice Used: Wet Blue Dry None

Packing Material Used: b bags

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

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

Lab Tracking #: 2560878

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92506V
Cooler 1 Temp Upon Receipt: 5.7 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.6 oC
Comments:

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	12/17/20	LDH PACE HVL	12/17/20 1633
Relinquished by/Company: (Signature)			
Relinquished by/Company: (Signature)			

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES NO

Page: of:

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ONLY- Affix Workorder M

WO# : 92512726

PM: NMG Due Date: 12/23/20

CLIENT: 92-MontEnvGr

ALL SHADED A

Company: Montrose- EPS	Billing Information: Jnicolette@montrose-env.com
Address: 400 Northridge Rd Suite 400	Sandy Springs GA 30350
Report To: See "Email to"	Email To: clee@montrose-env.com
Copy To: ctcates@montrose-env.com	Site Collection Info/Address: Huntersville
Customer Project Name/Number: Colonial Northstone/070PP-785322	State: NC County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: 571-235-7127 Email:	Site/Facility ID #:
Collected By (print): Cole Cates / Peyton Hillman	Purchase Order #: Quote #:
Collected By (signature):	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)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [ ] Yes [ ] No

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

Analysis:

Container Preservative Type **: 3 3

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: BTEX Method 8026 | TPH Gro Method 8015

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:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:

Lab Sample # / Comments: 92512726

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	BTEX 8026	TPH Gro 8015	Lab Sample # / Comments
20352-SW-DUP	SW	G	12/17/20	12:00	–	–	(pH)	6	X	X	010

Customer Remarks / Special Conditions / Possible Hazards:

SW = Surface water
G = grab
W = water

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: b.bags

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

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

Lab Tracking #: 2529398

Samples received via: FEDEX UPS (Client) Courier (Pace Courier) 12/17/20

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 92064

Cooler 1 Temp Upon Receipt: 5.7 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 5.6 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time: 12/17/20	Received by/Company: (Signature) CDH PACE HNL	Date/Time: 12/17/20 1622
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 (NO)

Page: of:

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-SW-2 **Lab ID: 92508815002** Collected: 12/01/20 14:35 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/03/20 21:21		
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		12/03/20 21:21	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 16:05	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 16:05	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 16:05	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 16:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 16:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 16:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/02/20 16:05	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		12/02/20 16:05	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		12/02/20 16:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-SW-3 **Lab ID: 92508815003** Collected: 12/01/20 13:55 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/03/20 21:49		
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		12/03/20 21:49	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 16:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 16:23	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 16:23	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 16:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 16:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 16:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		12/02/20 16:23	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		12/02/20 16:23	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		12/02/20 16:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-SW-4 **Lab ID: 92508815004** Collected: 12/01/20 13:25 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/03/20 23:41		
Surrogates								
4-Bromofluorobenzene (S)	86	%	70-130	1		12/03/20 23:41	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 16:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 16:41	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 16:41	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 16:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 16:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 16:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		12/02/20 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/02/20 16:41	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		12/02/20 16:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-SW-5 **Lab ID: 92508815005** Collected: 12/01/20 13:00 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/04/20 00:09		
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-130	1		12/04/20 00:09	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 16:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 16:58	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 16:58	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 16:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 16:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 16:58	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		12/02/20 16:58	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/02/20 16:58	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		12/02/20 16:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-SW-6 **Lab ID: 92508815006** Collected: 12/01/20 12:45 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/04/20 00:37		
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		12/04/20 00:37	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 17:16	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 17:16	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 17:16	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 17:16	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 17:16	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 17:16	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/02/20 17:16	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/02/20 17:16	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		12/02/20 17:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-SW-7 **Lab ID: 92508815007** Collected: 12/01/20 12:10 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/04/20 01:05		
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-130	1		12/04/20 01:05	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 17:33	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 17:33	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 17:33	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 17:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 17:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 17:33	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		12/02/20 17:33	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/02/20 17:33	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		12/02/20 17:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-SW-Seep **Lab ID: 92508815008** Collected: 12/01/20 14:10 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/04/20 01:33		
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	1		12/04/20 01:33	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 17:50	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 17:50	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 17:50	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 17:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 17:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 17:50	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/02/20 17:50	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/02/20 17:50	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		12/02/20 17:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-SW-Confluence **Lab ID: 92508815009** Collected: 12/01/20 14:15 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/04/20 02:01		
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		12/04/20 02:01	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 18:08	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 18:08	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 18:08	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 18:08	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 18:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 18:08	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		12/02/20 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/02/20 18:08	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/02/20 18:08	2037-26-5	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-SW-Dup **Lab ID: 92508815010** Collected: 12/01/20 12:00 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		12/04/20 02:29		
Surrogates								
4-Bromofluorobenzene (S)	87	%	70-130	1		12/04/20 02:29	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 18:25	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 18:25	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 18:25	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 18:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 18:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 18:25	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		12/02/20 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		12/02/20 18:25	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		12/02/20 18:25	2037-26-5	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Sample: 20336-Trip Blank **Lab ID: 92508815011** Collected: 12/01/20 00:00 Received: 12/01/20 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/02/20 15:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/02/20 15:13	100-41-4	
Toluene	ND	ug/L	1.0	1		12/02/20 15:13	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/02/20 15:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/20 15:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/20 15:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/02/20 15:13	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		12/02/20 15:13	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		12/02/20 15:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

QC Batch: 584307 | 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: 92508815001, 92508815002, 92508815003, 92508815004, 92508815005, 92508815006, 92508815007, 92508815008, 92508815009

METHOD BLANK: 3088846 Matrix: Water
Associated Lab Samples: 92508815001, 92508815002, 92508815003, 92508815004, 92508815005, 92508815006, 92508815007, 92508815008, 92508815009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	12/03/20 22:17	
4-Bromofluorobenzene (S)	%	90	70-130	12/03/20 22:17	

LABORATORY CONTROL SAMPLE: 3088847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	1.0	102	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3089918 3089919

Parameter	Units	92508815009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gas Range Organics (C6-C10)	mg/L	ND	1	1	1.1	1.1	107	106	68-145	1	
4-Bromofluorobenzene (S)	%						86	90	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

QC Batch: 584308
QC Batch Method: EPA 5030B/8015C Mod.
Analysis Method: EPA 5030B/8015C Mod.
Analysis Description: Gasoline Range Organics
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92508815010

METHOD BLANK: 3088848 Matrix: Water
Associated Lab Samples: 92508815010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	12/03/20 14:48	
4-Bromofluorobenzene (S)	%	98	70-130	12/03/20 14:48	

LABORATORY CONTROL SAMPLE: 3088849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	1.1	107	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3089920 3089921

Parameter	Units	92508815010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gas Range Organics (C6-C10)	mg/L	ND	1	1	1.1	1.1	107	108	68-145	1	
4-Bromofluorobenzene (S)	%						88	93	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

QC Batch: 583927
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92508815001, 92508815002, 92508815003, 92508815004, 92508815005, 92508815006, 92508815007, 92508815008, 92508815009, 92508815010, 92508815011

METHOD BLANK: 3086945 Matrix: Water
Associated Lab Samples: 92508815001, 92508815002, 92508815003, 92508815004, 92508815005, 92508815006, 92508815007, 92508815008, 92508815009, 92508815010, 92508815011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/02/20 10:50	
Ethylbenzene	ug/L	ND	1.0	12/02/20 10:50	
m&p-Xylene	ug/L	ND	2.0	12/02/20 10:50	
o-Xylene	ug/L	ND	1.0	12/02/20 10:50	
Toluene	ug/L	ND	1.0	12/02/20 10:50	
Xylene (Total)	ug/L	ND	1.0	12/02/20 10:50	
1,2-Dichloroethane-d4 (S)	%	94	70-130	12/02/20 10:50	
4-Bromofluorobenzene (S)	%	99	70-130	12/02/20 10:50	
Toluene-d8 (S)	%	107	70-130	12/02/20 10:50	

LABORATORY CONTROL SAMPLE: 3086946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	46.0	92	70-130	
Ethylbenzene	ug/L	50	51.9	104	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
o-Xylene	ug/L	50	54.8	110	70-130	
Toluene	ug/L	50	42.0	84	70-130	
Xylene (Total)	ug/L	150	161	107	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3086947 3086948

Parameter	Units	92508815010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	19.8	19.2	99	96	67-150	3	
Ethylbenzene	ug/L	ND	20	20	22.1	21.4	111	107	68-143	3	
m&p-Xylene	ug/L	ND	40	40	45.9	44.2	115	111	53-157	4	
o-Xylene	ug/L	ND	20	20	23.0	22.3	115	111	68-143	3	
Toluene	ug/L	ND	20	20	19.0	18.7	95	94	47-157	1	
Xylene (Total)	ug/L	ND	60	60	68.9	66.5	115	111	66-145	4	
1,2-Dichloroethane-d4 (S)	%						98	97	70-130		
4-Bromofluorobenzene (S)	%						97	98	70-130		
Toluene-d8 (S)	%						95	95	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Northstone (12/1)
Pace Project No.: 92508815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92508815001	**20336-SW-1**	EPA 5030B/8015C Mod.	584307		
92508815002	**20336-SW-2**	EPA 5030B/8015C Mod.	584307		
92508815003	**20336-SW-3**	EPA 5030B/8015C Mod.	584307		
92508815004	**20336-SW-4**	EPA 5030B/8015C Mod.	584307		
92508815005	**20336-SW-5**	EPA 5030B/8015C Mod.	584307		
92508815006	**20336-SW-6**	EPA 5030B/8015C Mod.	584307		
92508815007	**20336-SW-7**	EPA 5030B/8015C Mod.	584307		
92508815008	**20336-SW-Seep**	EPA 5030B/8015C Mod.	584307		
92508815009	**20336-SW-Confluence**	EPA 5030B/8015C Mod.	584307		
92508815010	**20336-SW-Dup**	EPA 5030B/8015C Mod.	584308		
92508815001	**20336-SW-1**	EPA 8260D	583927		
92508815002	**20336-SW-2**	EPA 8260D	583927		
92508815003	**20336-SW-3**	EPA 8260D	583927		
92508815004	**20336-SW-4**	EPA 8260D	583927		
92508815005	**20336-SW-5**	EPA 8260D	583927		
92508815006	**20336-SW-6**	EPA 8260D	583927		
92508815007	**20336-SW-7**	EPA 8260D	583927		
92508815008	**20336-SW-Seep**	EPA 8260D	583927		
92508815009	**20336-SW-Confluence**	EPA 8260D	583927		
92508815010	**20336-SW-Dup**	EPA 8260D	583927		
92508815011	**20336-Trip Blank**	EPA 8260D	583927		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

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

WO# : 92508815

92508815

Company: Montrose - EPS

Billing Information:

Address: 400 Northridge Rd Sandy Springs GA 30350

Report To: Cam Lee, Alex Testoff, Joe N.

Email To: clee@montrose-env.com Atestoff@montrose-env.com

Copy To: ctcates@montrose-env.com

Site Collection Info/Address: Huntersville

Customer Project Name/Number: Colonial Northstone / 07088-785322

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

Phone: Email: 571-235-7127

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Cam Lee, Cole Cates

Purchase Order #: Quote #:

DW PWS ID #: DW Location Code:

Collected By (signature): [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 (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)

Container: 3 | 3

** Preservative Types: (1) nitric acid, (2) ... inc 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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEX Method 8026	TPH Gro Method 8015	Lab Sample # / Comments
											92508815
20336-SW-1	SW	G	12/1/20	1450				6	X	X	001
20336-SW-2	SW	G	12/1/20	1435				6	X	X	002
20336-SW-3	SW	G	12/1/20	1355				6	X	X	003
20336-SW-4	SW	G	12/1/20	1325				6	X	X	004
20336-SW-5	SW	G	12/1/20	1300				6	X	X	005
20336-SW-6	SW	G	12/1/20	1245				6	X	X	006
20336-SW-7	SW	G	12/1/20	1210				6	X	X	007
20336-SW-Seep	SW	G	12/1/20	1416				6	X	X	008
20336-SW-Confluence	SW	G	12/1/20	1415				6	X	X	009
20336-Trip Blank	W	—	12/1/20	LAB				2	X		011

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:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:
G = Grab
SW = Surface Water

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: BB

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

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

Lab Tracking #: 2539091

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 3.7 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 3.6 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
EPS [signature]	12/1/20	LDH PACE [signature]	12/1/20 1540	Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

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

Non Conformance(s): YES / (NO)

Page: ___ of: ___

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ONLY- Affix Worko

WO# : 92508815

PM: NMG Due Date: 12/08/20

CLIENT: 92-MontEnvGr

ALL SHADE

Company: Montrose-EPS	Billing Information: 400 Northridge Rd Suite 400 Sandy Springs, GA 30350
Address:	
Report To: Cam Lee, Alex Testoff, Joe Nicolette	Email To: Atestoff@montrose-env.com Clee@montrose-env.com
Copy To: ctates@montrose-env.com	Site Collection Info/Address: Huntersville, NC
Customer Project Name/Number: Colonial Northstone / 070PP-785328	State: / County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email: 571-235-7127	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Cole Cates / Cam Lee	Purchase Order #: Quote #: 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 [X] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type: 3 | 3

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

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: X BTEX Method 8026	Analyses: X TPH GRO Method 8015	Lab Profile/Line
20336-SW-DUP	SW	G	12/1/20	1200				6	X	X	010

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:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:
G = Grab
SW = Surface Water

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: BB

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

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

Lab Tracking #: 2539092

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: T230C4
Cooler 1 Temp Upon Receipt: 3.7 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 3.6 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
EPS / Cole Cates	12/1/20	CDH PACE HNL	1540 12/1/20
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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 / (NO)

Page: of:

APPENDIX B

BORING LOGS

BORING NUMBER MW-07D

Apex

CLIENT Colonial Pipeline
PROJECT NAME 2020-L1-2248
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 Streckbein **BOREHOLE DIAMETER** 8.1 / 4 in. **DURING DRILLING** ---
METHOD Sonic **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS
0					
10	SC 1	PID = 1.2 PID = 2.3 PID = 1.7	7.5	LEAN CLAY, SILTY CLAY, (CL) dark red 2.5YR 3/6, moist, stiff, low plasticity, saprolite, mica	
20	SC 2	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	
30	SC 3	PID = 2.3 PID = 2.8 PID = 0	27.5	SILTY SAND, SILTY SAND, (SM) gray brown 10YR 5/2, moist, saprolite, quartz, mica, banding	drilling stop on 6 Nov, restart on 7 Nov at 20 feet bgs
40	SC 4	PID = 0 PID = 0.1 PID = 0.1		SILT, SILT, (ML) gray 10YR 5/1, moist, with sand, trace clay, saprolite	
50	SC 5	PID = 0.9 PID = 0.4 PID = 0.5	50.0	POORLY GRADED SAND, SAND, (SP-SM) dark yellow brown 10YR 4/4, dry, with silt, saprolite	
60	SC 6	PID = 0 PID = 0.1 PID = 0.8	57.5 60.0	POORLY GRADED SAND, SAND, (SP-SC) dark gray 10YR 3/1, moist, with clay, no odor, saprolite	
70	SC 7	PID = 0 PID = 0 PID = 0.9	68.0	POORLY GRADED SAND, SAND, (SP-SC) gray 10YR 5/1, moist, with clay, no odor, saprolite	drilling resistance indicates bedrock at 68 feet bgs
80	SC 8	PID = 1.5 PID = 0.8 PID = 0.3		DIORITE, highly weathered, [Quartz Diorite]	
90				DIORITE, [Quartz Diorite]	
100					air-lift yield 1 gpm
110					
120					
130					air-lift yield 1 gpm
140					
150					140.0-140.5 feet bgs soft zone
160					possible water-bearing zone
170			173.0		

Bottom of borehole at 173.0 feet.

WELL DIAGRAM

Casing Type: 4

700.9	
690.9	
688.4	
680.9	
	4-in. Sch. 40 PVC surface isolation casing
658.4	
650.9	
648.4	
640.4	Portland type I/II grout with 6% bentonite
	4-in. open borehole
535.4	

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 20/12/16 18:11 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ

BORING NUMBER MW-23R

Apex

CLIENT Colonial Pipeline
PROJECT NAME 2020-L1-2248
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE/TIME STARTED 9/21/2020 **COMPLETED** 9/21/2020
GROUND ELEVATION 721.15 ft **TOP OF CASING** 724.32 ft
DRILLING CONTRACTOR SM&E
EQUIPMENT CME-750X
DRILLER S. Gowan
GROUND WATER LEVELS AND TIME:
LOGGED BY A. Wreschnig / M. Stone **BOREHOLE DIAMETER** 8.25 in.
▽ **DURING DRILLING** 33.00 ft / Elev 688.15 ft
METHOD DPT / Hollow Stem Auger 4.25"
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS
0		PID = 0.2		SILT, CLAYEY SILT, (ML) red brown, dry, micaceous	log provided by AECOM stratigraphic logging from auger cuttings
		PID = 0.3			
		PID = 0.8			
		PID = 0.5			
10		PID = 0.6			
		PID = 0.8		13.0 SILT, CLAYEY SILT, (ML) gray brown, moist, micaceous	
		PID = 1			
20		PID = 1.1			
		PID = 1.2		25.0 SILT, CLAYEY SILT, (ML) gray, moist, micaceous	
		PID = 1.4			
30		PID = 1.3			
		PID = 0.7		▽ 35.0 SILTY SAND, SILTY SAND, (SM) gray brown, wet, micaceous	
		PID = 0.6			
40		PID = 0.5		45.0 Bottom of borehole at 45.0 feet.	

WELL DIAGRAM

Casing Type: 2

- grout
- 2-in. PVC Casing
- bentonite plug
- 708.2
- 696.2
- silica sand #2
- 2-in. Sch 40 PVC 0.010 slotted screen
- 686.2
- 676.2

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 20/12/16 18:13 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ

BORING NUMBER MW-36D

Apex

CLIENT Colonial Pipeline
PROJECT NAME 2020-L1-2248
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 ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						Casing Type: 4
70				70.0 DIORITE, unweathered, gray	drilling resistance indicates bedrock at 70 feet bgs	637.9
140				140.0 Bottom of borehole at 140.0 feet.	minor water-bearing zone	567.9

WELL DIAGRAM:
- 4-in. Sch. 40 PVC surface isolation casing
- Portland type I/II grout with 6% bentonite
- 4-in. open borehole

BORING NUMBER MW-56D

Apex

CLIENT Colonial Pipeline
PROJECT NAME 2020-L1-2248
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE/TIME STARTED 11/8/2020 **COMPLETED** 11/8/2020
GROUND ELEVATION _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling
EQUIPMENT _____
DRILLER _____
GROUND WATER LEVELS AND TIME:
LOGGED BY Tommy Fisher **BOREHOLE DIAMETER** in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0				no stratigraphic logging		
95.0				Bottom of borehole at 95.0 feet.	drilling resistance did not indicate bedrock within 95 feet bgs	hole abandoned with grout with 6% bentonite

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 20/12/16 18:18 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ

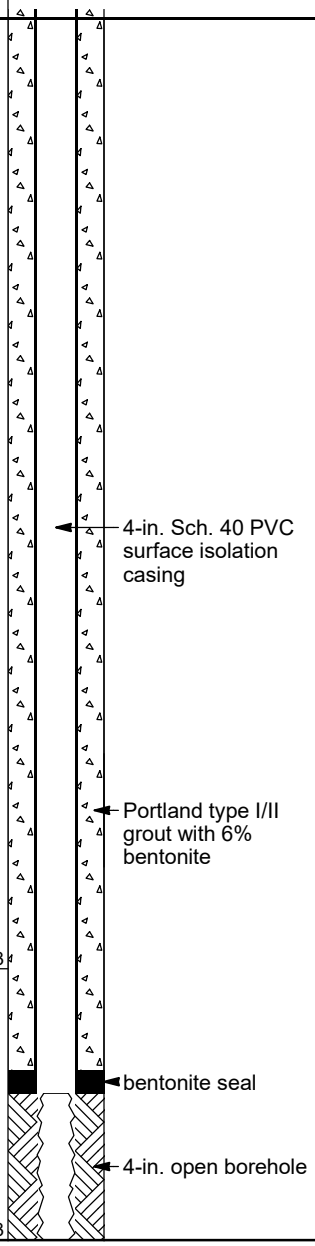
BORING NUMBER MW-57D

Apex

CLIENT Colonial Pipeline
PROJECT NAME 2020-L1-2248
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 ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS
0				no stratigraphic logging	initially identified as PDW-11
84.0				DIORITE, unweathered, gray, [Quartz Diorite] quartz fragments	drilling resistance indicates bedrock at 84 feet bgs 599.3
					break in drilling overnight at 94 feet bgs 97.5-98.5 feet bgs water-bearing zone
108.0				Bottom of borehole at 108.0 feet.	575.3

WELL DIAGRAM



CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 20/12/16 18:19 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ

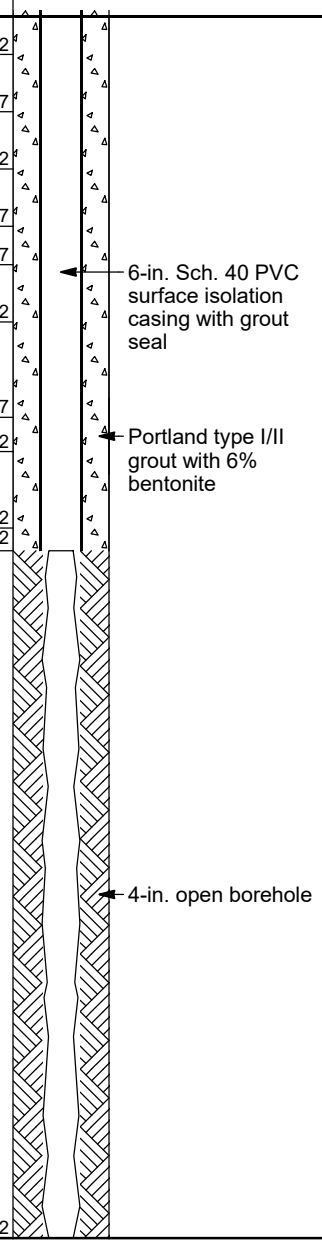
BORING NUMBER MW-59D

Apex

CLIENT Colonial Pipeline
PROJECT NAME 2020-L1-2248
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE/TIME STARTED 11/2/2020 **COMPLETED** 11/18/2020 **GROUND ELEVATION** 718.17 ft **TOP OF CASING** 720.98 ft
DRILLING CONTRACTOR HD Drilling / Parrot-Wolf
EQUIPMENT
DRILLER
GROUND WATER LEVELS AND TIME:
LOGGED BY Kyle Zigler / Bill Jones **BOREHOLE DIAMETER** 9.9 / 6 in.
DURING DRILLING ---
METHOD Sonic / Air Rotary
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS
0		PID = 0.2		5.0 LEAN CLAY, SILTY CLAY, (CL) red brown 2.5YR 4/4, moist, low plasticity, saprolite, trace pyrite	initially identified as PDW-5
10		PID = 0.1 PID = 0.1 PID = 0.1		12.5 SILT, CLAYEY SILT, (SM) strong brown 7.5YR 5/8, dry, saprolite, mica, pyrite	
20		PID = 0.1 PID = 0.1 PID = 0.1		20.0 SILT, CLAYEY SILT, (ML) pink 2.5YR 8/4, moist, saprolite, trace mica	
30		PID = 0.5 PID = 0.7 PID = 1.5 PID = 1.5		27.5 SILT, CLAYEY SILT, (ML) pale brown 10YR 7/3, saprolite, mica, quartz, banding	
40		PID = 3.5 PID = 8.3		32.5 SILT, SILT, (ML) dark yellow brown 10YR 4/4, moist, trace clay, saprolite	
50		PID = 0.1 PID = 0.1 PID = 0.1 PID = 0.7		40.0 SANDY SILT, SANDY SILT, (ML) gray brown 10YR 5/2, moist, saprolite, mica, banding	
60		PID = 1 PID = 0.1 PID = 1.4 PID = 0.1 PID = 0.9		52.5 57.0 SILTY SAND, SILTY SAND, (SM) brown 10YR 4/3, dry, saprolite, quartz, mica, banding	
70				67.0 70.0 SILTY SAND, SILTY SAND, (SM) strong brown 7.5YR 4/6, dry, saprolite, mica, rock fragments	drilling resistance indicates bedrock at 67 feet bgs
80				DIORITE, gray, [Quartz Diorite] quartz vein near vertical with pyrite, trace olivine	
90				DIORITE, gray, [Quartz Diorite] quartz fragments	drilling break to remove stuck bit
100					
110					
120					
130					
140					harder drilling
150					
160				160.0	no observable water-bearing zones

Bottom of borehole at 160.0 feet.



CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 20/12/16 18:19 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ

APPENDIX C

GROUNDWATER SAMPLING LOGS

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-01	SAMPLE ID: MW-01	DATE: 11/30/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 19 feet to 34 feet	STATIC DEPTH TO WATER (feet): 27.18	PURGE PUMP TYPE OR BAILER: G

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (34 feet – 27.18 feet) X 0.163 gallons/foot = 1.11 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0945	1.1	1.1	—	—	6.56	14.9	126.6	5.95	175.8	light brown	No
0950	2.2	2.2	—	—	6.71	14.9	121.3	6.39	172.3	〃	〃
0955	3.3	3.3	—	—	6.62	14.9	122.1	6.62	156.7	〃	〃

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jim Dimitoff AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0935	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.62	6200	CG	
	3	AG	40ml	HCL	40ml x 3	〃	VPH	〃	
	1	PE	250ml	HN03	250ml	〃	Lead by 6010	〃	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 113020

PURGING DATA

WELL DIAMETER (inches): MW-2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 19 feet to 34 feet	STATIC DEPTH TO WATER (feet): 28.73	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (34 feet − 28.73 feet) X .163 gallons/foot = 0.86 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1205	1	1			6.85	15.3	145.5	3.36	-20.3	cloudy	no odor
1210	1	2			6.81	15.5	126.8	5.85	13.4	cloudy	no odor
1215	1	3			6.80	15.3	125.3	4.49	28.2	cloudy	no odor

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Wessels Jim Dimitroff	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1220	SAMPLING ENDED AT: 1220

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.80	6200		
	3	AG	40ml	HCL	40ml x 3	6.80	VPH		
	1	PE	250ml	HN03	250ml	6.80	Lead by 6010		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-3	SAMPLE ID: MW-3	DATE: 11/30/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 20.6	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.4 feet − 20.6 feet) X 0.163 gallons/foot = 1.60 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 4.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or ~~mS/cm~~	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
1054	1.60	1.60	—	—	5.69	15.1	149.5	3.83	153.2	lt. brn	none
1057	1.60	3.20	—	—	5.66	15.0	135.7	4.80	151.5	lt. brn	none
1100	1.60	4.80	—	—	5.66	14.8	135.5	3.63	150.9	lt. brn	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-3	4	AG	40ml	HCL	40ml x 4	5.66	6200	B	—
1	3	AG	40ml	HCL	40ml x 3	1	VPH	1	—
1	1	PE	250ml	HN03	250ml	1	Lead by 6010	1	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: ~~MW-12~~ MW-24 (BG)	SAMPLE ID: MW-12	DATE: 11/30/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to 40 feet	STATIC DEPTH TO WATER (feet): 30.11	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (40 feet – 30.11 feet) X 0.163 gallons/foot = 1.6 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/l) or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1430	1.6	1.6			6.73	15.2	89.3	8.80	199.2	l. brown	no odor
1435	1.6	3.2			6.72	15.4	89.4	8.53	200.1	l. brown	no odor
1440	1.6	4.8			6.72	15.3	90.5	5.92	201.3	l. brown	no odor

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Wescombe Jim Mintoff Aecom	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1440	SAMPLING ENDED AT: 1440
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.72	6200		
	3	AG	40ml	HCL	40ml x 3	6.72	VPH		
	1	PE	250ml	HN03	250ml	6.72	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-05	SAMPLE ID: MW-05	DATE: 11/30/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 9 feet to 39 feet	STATIC DEPTH TO WATER (feet): 25.38	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (39 feet – 25.38 feet) X 0.163 gallons/foot = 2.2 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
0900	2.2	2.20			6.64	15.5	102.8	8.70	\	1.brown	no	155
0910	2.2	4.40			6.61	15.6	92.4	8.75	\	1.brown	no	157
0915	2.2	6.60			6.59	15.6	93.4	4.47	\	1.brown	no	161

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Welserbs Jim Dimitroff	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0920	SAMPLING ENDED AT: 0920
PUMP OR TUBING DEPTH IN WELL (feet): 40cm	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.59	6200	B	
	3	AG	40ml	HCL	40ml x 3	6.59	VPH	B	
	1	PE	250ml	HN03	250ml	6.59	Lead by 6010	B	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-06	SAMPLE ID: MW-06	DATE: 11/30/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE 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)
= (40 feet − 22.52 feet) X .163 gallons/foot = 2.8 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1130	3	3			6.58	15.2	114.4	~~173.8~~ 2.31	182.3	brown	odor
1135	3	6			6.59	15.2	116.7	5.91	190.3	1	1
1140	3	9			6.60	15.5	112.3	6.16	177.2	1	1

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
JD / AECOM		1130	1145

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.60	6200		
	3	AG	40ml	HCL	40ml x 3	1	VPH		
	1	PE	250ml	HN03	250ml	1	Lead by 6010		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-7	SAMPLE ID: MW-7	DATE: 11/30/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 29.05	PURGE 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)
= (37.95 feet − 29.05 feet) X 0.163 gallons/foot = 1.45 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 4.35

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or ~~µS/cm~~	DISSOLVED OXYGEN (circle units) mg/l or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
1147	1.45	1.45	—	—	5.90	14.8	132.2	6.45	175.6	Brown	none
1152	1.45	~~1.45~~ 2.90	—	—	5.86	15.1	123.6	6.03	166.7	Brown	none
1200	1.45	+ 4.35	—	—	5.94	14.9	123.1	6.04	154.4	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1200	SAMPLING ENDED AT: —

PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-7	4	AG	40ml	HCL	40ml x 4	5.94	6200	B	—
〃	3	AG	40ml	HCL	40ml x 3	〃	VPH	〃	—
〃	1	PE	250ml	HN03	250ml	〃	Lead by 6010	〃	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-08	SAMPLE ID: MW-08	DATE: 12/1/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): —	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (49.0 feet – 31.54 feet) X 0.65 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): ~~11.35~~ 34.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
1527	11.35	11.35	—	—	6.27	14.6	109.5	5.01	120.6	lt. brn	none
1535	11.35	22.70	—	—	6.08	14.7	130.3	5.09	130.4	lt. brn	none
1545	11.35	34.05	—	—	6.11	14.4	108.3	5.27	144.8	lt. brn	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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			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	40ml	HCL	40ml x 4	6.11	6200		
	3	AG	40ml	HCL	40ml x 3		VPH		
	1	PE	250ml	HN03	250ml		Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-09	SAMPLE ID: MW-09	DATE: 11/30/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 19 feet to 34 feet	STATIC DEPTH TO WATER (feet): 28.67	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (34 feet − 28.67 feet) X .163 gallons/foot = 0.86 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1045	1	1			6.53	14.8	150.7	5.45	143.2	Cloudy	no odor
1050	1	2			6.55	14.9	151.9	6.09	136.7	cloudy	no odor
1055	1	3			6.67	14.8	153.6	5.44	102.0	cloudy	no odor

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1800
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	5.44	6200		
	3	AG	40ml	HCL	40ml x 3	5.44	VPH		
	1	PE	250ml	HN03	250ml	5.24	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-12	SAMPLE ID: MW-12	DATE: 11/30/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to 41.5 feet	STATIC DEPTH TO WATER (feet): 33.09	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (41.5 feet − 33.09 feet) X 0.163 gallons/foot = 1.4 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1410	1	1.4			6.83	15.4	193.2	7.36	190.7	light Br	No
1415	2	2.8			6.87	15.5	198.5	7.56	180.0	"	"
1420	3	4.2			6.82	15.2	189.2	4.81	158.8	"	"

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD / AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1405	SAMPLING ENDED AT: 1420
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.82	6200		
	3	AG	40ml	HCL	40ml x 3	"	VPH		
	1	PE	250ml	HN03	250ml	"	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-13	SAMPLE ID: MW-13	DATE: 12022020

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 15 feet to 60 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: 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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1505	14	14			6.05	16.1	204	2.39	240.1	Br	none
1510	Dry @	~15gal									

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD / AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1500	SAMPLING ENDED AT: 1510
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4		6200		
	3	AG	40ml	HCL	40ml x 3		VPH		
	1	PE	250ml	HN03	250ml		Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-14	SAMPLE ID: MW-14	DATE: 12/2/2020

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	–		31.17	Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (43.0 feet – 31.17 feet) X 0.65 gallons/foot = 7.69 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
–	–	–	–	17.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
1234	7.69	7.69	–	–	5.54	15.9	109.3	4.75	129.3	lt. brown	none
1240	7.69	15 38	–	–	5.45	16.1	108.6	4.72	136.0	lt brown	none
1245	1.62	17.0	–	–	5.61	16.2	112.1	3.51	127.2	lt 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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Emily Love / AECOM	Emily R. Love	1245	–

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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			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			
MW-14	4	AG	40ml	HCL	40ml x 4	5.61	6200	B	–
	3	AG	40ml	HCL	40ml x 3		VPH		–
	1	PE	250ml	HN03	250mℓ		Lead by 6010		–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-15	SAMPLE ID: MW-15	DATE: 11/30/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to 41.5 feet	STATIC DEPTH TO WATER (feet): 34.7	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (41.5 feet − 34.7 feet) X 0.163 gallons/foot = 1.1 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1510	1.1	1.1			6.63	15.2	163.7	6.25	209.7	Brown	NO
1515	1.1	2.2			6.64	15.2	160.9	6.01	220.8	1	1
1520	1.1	3.3			6.59	15.3	153.1	5.25	206.9	1	1

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD / AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1505	SAMPLING ENDED AT: 1520
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.5	6200		
	3	AG	40ml	HCL	40ml x 3		VPH		
	1	PE	250ml	HN03	250ml		Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-16	SAMPLE ID:	DATE: 12/20/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 46 feet to feet	STATIC DEPTH TO WATER (feet): 33.72	PURGE 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)
= (46 feet − 33.72 feet) X .653 gallons/foot = 8 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1355	8	8			6.71	17.0	136.5	3.85	175.9	Br	no
1405	7	15			6.61	16.8	134.8	4.24	172.3	Br	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; **1/2"** = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Wesselo Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1410	SAMPLING ENDED AT: 1410

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.61	6200		
	3	AG	40ml	HCL	40ml x 3	6.61	VPH		
	1	PE	250ml	HN03	250ml	6.61	Lead by 6010		

REMARKS: well dry @ 15 gal purged

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-17	SAMPLE ID: MW-17	DATE: 12/1/20

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 35.76	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (50 feet – 35.76 feet) X 0.653 gallons/foot = 9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1430	9	9			6.17	16.5	90.6	2.61	215.0	orange brown	no
1440	~~5~~	~~14~~			6.44	16.4	106.4	3.75	189.0	"	"
well dry after 14gal purged											

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD / AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1420	SAMPLING ENDED AT: 1440
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.44	6200		
	3	AG	40ml	HCL	40ml x 3	6.44	VPH		
	1	PE	250ml	HN03	250ml	6.44	Lead by 6010		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-18	SAMPLE ID: MW-18	DATE: 12/1/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 39.20	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (48.33 feet − 39.20 feet) X 0.163 gallons/foot = 1.49 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 4.47

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
0839	1.49	1.49	—	—	6.52	16.5	129.9	5.11	119.2	Brown	none
0842	1.49	2.98	—	—	6.07	17.0	111.4	5.30	121.2	Brown	none
0845	1.49	4.47	—	—	5.82	16.8	104.7	5.12	133.1	lt. Brn	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 0845	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-18	4	AG	40ml	HCL	40ml x 4	5.82	6200	B	—
"	3	AG	40ml	HCL	40ml x 3	"	VPH	"	—
"	1	PE	250ml	HN03	250ml	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-19	SAMPLE ID: MW-19	DATE: 12/2/2026

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 16 feet to 36 feet	STATIC DEPTH TO WATER (feet): 31.39	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (36 feet − 31.39 feet) X 0.653 gallons/foot = 3 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	~~TURBIDITY~~ (NTUs) ORP	COLOR (describe)	ODOR (describe)
1025	3	3			6.45	17.1	191.2	4.72	161.9	Br	no
1030	2	5 Dry			6.52	17.2	197.4	2.97	171.4	"	"

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1030
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4		6200		
	3	AG	40ml	HCL	40ml x 3		VPH		
	1	PE	250ml	HN03	250ml		Lead by 6010		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-20	SAMPLE ID: MW-20	DATE: 12/1/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (51.20 feet − 41.20 feet) X 0.163 gallons/foot = 1.63 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 4.89

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
0924	1.63	1.63	—	—	5.92	16.4	138.4	5.00	128.9	H.brn	none
0927	1.63	3.26	—	—	6.02	16.9	155.5	4.80	128.9	H.brn	none
0930	1.63	4.89	—	—	6.00	15.9	139.6	5.09	129.8	H.brn	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 0930	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-20	4	AG	40ml	HCL	40ml x 4	6.00	6200	B	—
"	3	AG	40ml	HCL	40ml x 3	"	VPH	"	—
"	1	PE	250ml	HN03	250ml	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-21	SAMPLE ID: MW-21	DATE: 12/1/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 15 feet to 50 feet	STATIC DEPTH TO WATER (feet): 30.86	PURGE 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)
= (50 feet − 30.86 feet) X 0.653 gallons/foot = 12.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
	12.5	12.5			6.89	16.3	202.9	3.51	162.3	d. brown	diesel/mat odor
	12.5	25			6.96	16.41	211.1	3.76	154.4	d. brown	diesel/mat odor
	12.5	37.5			7.07	16.9	227.9	2.88	149.1	d. brown	diesel/mat odor

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Wellebs AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1140	SAMPLING ENDED AT: 1140
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	7.07	6200		
	3	AG	40ml	HCL	40ml x 3	7.07	VPH		
	1	PE	250ml	HN03	250ml	7.07	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-22	SAMPLE ID: MW-22	DATE: 12/1/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (37.20 feet – feet) X 0.163 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
NO SAMPLE TAKEN – PRODUCT IN WELL											
DTP: 34.90											
DTW: 35.40											

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT:	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4		6200	B	—
	3	AG	40ml	HCL	40ml x 3		VPH		—
	1	PE	250ml	HN03	250ml		Lead by 6010		—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-23	SAMPLE ID: MW-23	DATE: 12/1/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 15 feet to 45 feet	STATIC DEPTH TO WATER (feet): 29.80	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (45 feet – 29.80 feet) X 0.163 gallons/foot = 2.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1520	2.5	2.5			6.44	16.5	108.8	7.28	188.1	Br	no
1525	2.5	5			6.44	16.4	109.2	6.59	188.2	Br	no
1530	2.5	7.5			6.43	16.3	109.3	5.68	188.5	Br	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.43	6200		
	3	AG	40ml	HCL	40ml x 3	6.43	VPH		
	1	PE	250ml	HN03	250ml	6.43	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-25	SAMPLE ID: MW-25	DATE: 12/1/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (60.45 feet − 43.85 feet) X 0.163 gallons/foot = 2.71 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 8.13

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
1000	2.71	2.71	—	—	5.89	15.0	146.4	6.35	139.2	Brown	none
1003	2.71	5.42	—	—	5.90	15.1	153.0	~~140.9~~ 6.82	140.1	Brown	none
1005	2.71	8.13	—	—	5.69	15.0	147.2	6.24	153.7	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Lore / AECOM	SAMPLER(S) SIGNATURE(S): Emily L. Lore	SAMPLING INITIATED AT: 1005	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-25	4	AG	40ml	HCL	40ml x 4	5.69	6200	B	—
〃	3	AG	40ml	HCL	40ml x 3	〃	VPH	〃	—
〃	1	PE	250ml	HN03	250ml	〃	Lead by 6010	〃	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-27	SAMPLE ID: MW-27	DATE: 11/30/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.1	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (45.3 feet – 33.1 feet) X 0.163 gallons/foot = 1.99 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 5.97

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or ~~S/cm~~	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
1214	1.99	1.99	—	—	5.92	15.1	122.6	5.43	177.0	lt. brn	none
1217	1.99	3.98	—	—	5.96	15.2	119.2	6.14	173.0	lt brn	none
1220	1.99	5.97	—	—	6.04	14.9	120.1	6.03	172.7	lt. brn	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1220	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-27	4	AG	40ml	HCL	40ml x 4	6.04	6200	B	—
"	3	AG	40ml	HCL	40ml x 3	"	VPH	"	—
"	1	PE	250ml	HN03	250ml	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-28	SAMPLE ID: MW-28	DATE: 12/2/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 25 feet to 40 feet	STATIC DEPTH TO WATER (feet): 29.19	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (40 feet − 29.19 feet) X 0.163 gallons/foot = 1.75 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
	1.75	1.75			6.13	17.0	145.6	5.95	205.6	Br	no
	1.75	3.50			6.14	17.2	152.8	5.70	200.1	Br	no
	1.75	5.25			(D) 6.14	16.3	152.7	6.18	196.8	Br	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Weisebs AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1116	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.14	6200		
	3	AG	40ml	HCL	40ml x 3	6.14	VPH		
	1	PE	250ml	HN03	250ml	6.14	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-29	SAMPLE ID: MW-29	DATE: 12/3/20

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 38.06	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (50 feet − 38.06 feet) X .653 gallons/foot = 12.6 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1040	12.6	12.6			6.52	13.3	179.2	3.95	157.1	Br	no
1050	12	24.6			6.49	14.8	175.8	3.74	155.6	Br	no
	Well dry after purging 24gal										

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Weisbeck AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.49	6200		
	3	AG	40ml	HCL	40ml x 3	6.49	VPH		
	1	PE	250ml	HN03	250ml	6.49	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-30	SAMPLE ID: MW-30	DATE: 11/30/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 20 feet to 35 feet	STATIC DEPTH TO WATER (feet): 29.65	PURGE 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)
= (35 feet – 29.65 feet) X .163 gallons/foot = 0.87 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or (μS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
1015	1	1									
1020	1	2			6.44	15.0	156.8	44.2	163.7	clear	no odor
1025	1	3			6.44	15.0	153.4	47.6	164.8	clear	no odor
					6.44	15.0	150.9	49.2	174.0	clear	no odor

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Weiselbs Jim Dimhoff Atcon	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: 1030
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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			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	40ml	HCL	40ml x 4	6.44	6200		
	3	AG	40ml	HCL	40ml x 3	6.44	VPH		
	1	PE	250ml	HN03	250ml	6.44	Lead by 6010		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)
SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 20

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-31	SAMPLE ID: MW-31	DATE: 12/2/20

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 14 feet to 44 feet	STATIC DEPTH TO WATER (feet): 27.67	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (44 feet – 27.67 feet) X .635 gallons/foot = 10.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY ~~(NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
0945	10.5	10.5			6.35	13.0	158.2	10.69	162.8	Br	no
0955	10.5	21			6.48	17.6	170.7	4.02	169.1	"	"
1005	10.5	31.5			6.52	16.4	188.5	6.05	176.1	Br	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Weisbeck Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1005	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.52	6200		
	3	AG	40ml	HCL	40ml x 3	6.52	VPH		
	1	PE	250ml	HN03	250ml	6.52	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-32	SAMPLE ID: MW-32	DATE: 11/30/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.71	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (28.25 feet − 13.71 feet) X 0.163 gallons/foot = 2.37 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 7.11

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
1024	2.37	2.37	—	—	5.85	16.6	117.6	3.78	135.2	H.brn	none
1027	2.37	4.74	—	—	5.95	16.3	114.2	4.64	137.8	lt.brn	none
1030	2.37	7.11	—	—	5.94	15.8	117.4	4.38	141.3	H.brn	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-32	4	AG	40ml	HCL	40ml x 4	5.94	6200	B	—
"	3	AG	40ml	HCL	40ml x 3	"	VPH	"	—
"	1	PE	250ml	HN03	250ml	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-33	SAMPLE ID: MW-33	DATE: 11/30/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.71	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (28 feet – 10.71 feet) X 0.163 gallons/foot = 2.82 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 8.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or ~~mS/cm~~	DISSOLVED OXYGEN (circle units) mg/L or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
0953	2.82	2.82	—	—	5.90	16.3	120.9	4.85	111.4	lt. brn	none
0956	2.82	5.64	—	—	5.92	15.7	108.0	6.17	117.6	lt. brn	none
1000	2.82	8.46	—	—	5.96	15.7	107.9	4.47	123.4	lt. brn	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1000	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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			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			
MW-33	4	AG	40ml	HCL	40ml x 4	5.96	6200	B	—
"	3	AG	40ml	HCL	40ml x 3	"	VPH	"	—
"	1	PE	250ml	HN03	250ml	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-34	SAMPLE ID: MW-34	DATE: 11/30/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: 5 feet to 20 feet	STATIC DEPTH TO WATER (feet): 8.96	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (22.88 feet − 8.96 feet) X 0.163 gallons/foot = 2.27 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 6.81

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
0930	2.27	2.27	—	—	6.65	16.2	269.6	6.14	172.0	Brown	none
0932	2.27	4.54	—	—	6.11	16.2	164.1	4.88	174.3	L. Brn	none
0935	2.27	6.81	—	—	6.05	15.9	163.5	3.78	118.8	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 0935	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-34	4	AG	40ml	HCL	40ml x 4	6.05	6200	B	—
〃	3	AG	40ml	HCL	40ml x 3	〃	VPH	〃	—
〃	1	PE	250ml	HN03	250ml	〃	Lead by 6010	〃	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-35	SAMPLE ID: MW-35	DATE: 11/30/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 24.83	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (40.40 feet − 24.83 feet) X 0.163 gallons/foot = 2.54 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 7.62

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
1441	2.54	2.54	—	—	6.31	15.4	149.3	5.97	163.0	lt. brn	none
1443	2.54	5.08	—	—	6.01	15.2	143.5	6.05	164.3	lt.brn	none
1445	2.54	7.62	—	—	6.16	15.3	144.6	5.27	151.4	lt.brn	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1445	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-35	4	AG	40ml	HCL	40ml x 4	6.16	6200	B	—
〃	3	AG	40ml	HCL	40ml x 3	〃	VPH	〃	—
〃	1	PE	250ml	HN03	250ml	〃	Lead by 6010	〃	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-36	SAMPLE ID: MW-36	DATE: 11/30/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 26.85	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (45.35 feet − 26.85 feet) X 0.163 gallons/foot = 3.02 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 9.06

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
1508	3.02	3.02	—	—	6.26	15.2	147.4	5.85	144.2	H. brn	none
1512	3.02	6.04	—	—	6.10	15.2	150.2	5.71	150.2	H.brn	none
1515	3.02	9.06	—	—	6.21	17.3	160.0	4.27	136.0	H.brn	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily L. Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily Love	SAMPLING INITIATED AT: 1515	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-36	4	AG	40ml	HCL	40ml x 4	6.21	6200	B	—
"	3	AG	40ml	HCL	40ml x 3	"	VPH	"	—
"	1	PE	250ml	HN03	250ml	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-37	SAMPLE ID: MW-37	DATE: 11/30/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 26.97	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (37.91 feet − 26.97 feet) X 0.163 gallons/foot = 1.78 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 5.34

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1540	1.78	1.78	—	—	5.96	16.3	124.8	4.31	133.4	H. brn	none
1542	1.78	3.56	—	—	5.84	15.5	121.8	4.50	143.3	H. brn	none
1545	1.78	5.34	—	—	6.05	15.5	126.4	4.51	133.0	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love/AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1545	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-37	4	AG	40ml	HCL	40ml x 4	6.05	6200	B	—
"	3	AG	40ml	HCL	40ml x 3	"	VPH	"	—
"	1	PE	250ml	HN03	250ml	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-38	SAMPLE ID: MW-38	DATE: 12/3/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to 50 feet	STATIC DEPTH TO WATER (feet): 37.98	PURGE PUMP TYPE OR BAILER: Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (50 feet – 37.98 feet) X 0.653 gallons/foot = 7.8 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1500	8	8			6.63	16.5	209.4	3.12	162.3	clear	no
1505	8	16			6.51	17.2	207.1	3.06	158.1	Br	no
1510	8	24			6.50	17.1	202.6	2.83	154.3	Br	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 1510
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.50	6200		
	3	AG	40ml	HCL	40ml x 3	6.50	VPH		
	1	PE	250ml	HN03	250ml	6.50	Lead by 6010		

REMARKS: DUP-3

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-48	SAMPLE ID: MW-40	DATE: 12/1/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 27 feet to 37 feet	STATIC DEPTH TO WATER (feet): 33.63	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (37 feet – 33.63 feet) X 0.163 gallons/foot = 0.55 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	~~TURBIDITY~~ (NTUs) ORP.	COLOR (describe)	ODOR (describe)
1500	0.5	0.5			6.18	18.0	111.2	3.47	107.3	Br	no
1505	0.5	1			6.18	18.4	114.5	3.96	121.7	"	slight
1510	0.5	1.5			6.17	18.2	114.8	3.41	124.3	"	"

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD / AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1455	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.17	6200		
	3	AG	40ml	HCL	40ml x 3		VPH		
	1	PE	250ml	HN03	250ml		Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-41	SAMPLE ID: MW-41	DATE: 12/3/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 50 feet to 65 feet	STATIC DEPTH TO WATER (feet): 53.48	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (65 feet − 53.48 feet) X 0.163 gallons/foot = 1.8 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1315	1.8				6.52	15.7	176.7	9.31	212.7	clear	—
	3.6				6.52	15.4	163.5	7.05	209.2	"	"
	5.4				6.51	15.8	166.2	6.37	210.3	"	"

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 1325
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.51	6200		
	3	AG	40ml	HCL	40ml x 3	6.51	VPH		
	1	PE	250ml	HN03	250ml	6.51	Lead by 6010		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-42	SAMPLE ID: MW-42	DATE: 120220

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 11 feet to 51 feet	STATIC DEPTH TO WATER (feet): 38.58	PURGE 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 feet – 38.58 feet) X .653 gallons/foot = 9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1530	7				5.90	16.8	148.7	2.99	194.9	clear	no odor
Dry after 7gal purged											

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Webster ATC	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1540	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	5.9	6200		
	3	AG	40ml	HCL	40ml x 3	5.9	VPH		
	1	PE	250ml	HN03	250ml	5.9	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-43	SAMPLE ID: MW-43	DATE: 12-2-2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 38.58	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (47 feet – 38.58 feet) X .653 gallons/foot = 5.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1200					6.20	15.9	198.3	4.94	210.0	Br	NO
1205					6.19	16.0	201.9	4.24	207.6	"	"
1210					6.34	15.5	216.8	4.34	199.3	"	"

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Webster AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1210	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.34	6200		
	3	AG	40ml	HCL	40ml x 3	6.34	VPH		
	1	PE	250ml	HN03	250ml	6.34	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-44	SAMPLE ID: MW-44	DATE: 12/17/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 32.56	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.05 feet − 32.56 feet) X 0.65 gallons/foot = 1.62 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	~~TURBIDITY (NTUs)~~ ORP	COLOR (describe)	ODOR (describe)
1115	1	1	—	—	6.26	15.1	271.0	3.33	166.8	clear	none
1400	1	1	—	—	6.57	15.3	259.7	3.08	145.0	brown	none
		* dry @ 2 gallons *									

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love/AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1400	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-44	4	AG	40ml	HCL	40ml x 4	6.57	6200	B	—
"	3	AG	40ml	HCL	40ml x 3	"	VPH	"	—
"	1	PE	250ml	HNO3	250ml	"	Lead by 6010	"	—

REMARKS: went dry @ 1115 after 1 gallon. Let recharge until 1400, went dry.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW- 45	SAMPLE ID: MW-45	DATE: 12/2/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (53.75 feet – 35 45 feet) X 0.65 gallons/foot = 11.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): –	FINAL PUMP OR TUBING DEPTH IN WELL (feet): –	PURGING INITIATED AT: –	PURGING ENDED AT: –	TOTAL VOLUME PURGED (gallons): 18.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
1011	11.9	11.9	–	–	6.39	14.4	198 5	5.04	105.6	H.brown	none
1015	6.6	18.5	–	–	6.48	15.0	199 2	4.85	107.3	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: –
PUMP OR TUBING DEPTH IN WELL (feet): –	TUBING MATERIAL CODE: –	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					
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 per minute)
MW-45	4	AG	40ml	HCL	40ml x 4	6.48	6200	B	–
	3	AG	40ml	HCL	40ml x 3		VPH		–
	1	PE	250ml	HN03	250mℓ		Lead by 6010		–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-46	SAMPLE ID: MW-46	DATE: 12/2/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 32.94	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (44.1 feet – 32.94 feet) X 0.65 gallons/foot = 7.25 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): –	FINAL PUMP OR TUBING DEPTH IN WELL (feet): –	PURGING INITIATED AT: –	PURGING ENDED AT: –	TOTAL VOLUME PURGED (gallons): 11

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
0810	7.25	7.25	–	–	6.63	15.1	292.9	1.79	144.6	lt. brown	none
0815	3.75	11	–	–	6.46	15.0	187.3	2.49	115.0	lt. 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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 0815	SAMPLING ENDED AT: –
PUMP OR TUBING DEPTH IN WELL (feet): –	TUBING MATERIAL CODE: –	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					
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 per minute)
MW-46	4	AG	40ml	HCL	40ml x 4	6.46	6200	B	–
	3	AG	40ml	HCL	40ml x 3		VPH		–
	1	PE	250ml	HN03	250mℓ		Lead by 6010		–

REMARKS: dry @ 11 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-49	SAMPLE ID: MW-49	DATE: 12/2/2020

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	–		33.75	Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (57.4 feet – 33.75 feet) X 0.65 gallons/foot = 15.37 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
–	–	–	–	46.11

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
1040	15.37	15.37	–	–	5.99	15.6	260.4	4.81	120.4	orange	none
1055	15.37	30.74	–	–	5.60	15.6	201.5	5.76	120.9	orange	none
1105	15.37	46.11	–	–	5.84	15.2	173.5	5.23	129.9	orange	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Emily Love / AECOM	Emily R. Love	1105	–

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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			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			
MW-49	4	AG	40ml	HCL	40ml x 4	5.84	6200	B	–
	3	AG	40ml	HCL	40ml x 3		VPH		–
	1	PE	250ml	HN03	250mℓ		Lead by 6010		–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-50	SAMPLE ID: MW-50	DATE: 12/2/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 37.04	PURGE 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)
= (59 feet − 37.04 feet) X 0.65 gallons/foot = 14.3 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 54	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 54	PURGING INITIATED AT: 1451	PURGING ENDED AT: 1535	TOTAL VOLUME PURGED (gallons): 28.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
1511	14.3	14.3	0.72	46.21	5.73	17.2	125.7	1.08	71.6	clear	Yes
1530	14.3	28.6	0.75	54	5.60	17.2	133.3	1.54	73.2	clear	yes

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1530	SAMPLING ENDED AT: 1535
PUMP OR TUBING DEPTH IN WELL (feet): 54	TUBING MATERIAL CODE: PE	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			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			
MW-50	4	AG	40ml	HCL	40ml x 4	5.60	6200	ESP	—
	3	AG	40ml	HCL	40ml x 3		VPH		—
	1	PE	250ml	HN03	250mℓ		Lead by 6010		—

REMARKS: dry @ 28.6 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-51	SAMPLE ID: MW-51	DATE: 12/2/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 37.30	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (49.7 feet – 37.30 feet) X 0.65 gallons/foot = 8.06 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): –	FINAL PUMP OR TUBING DEPTH IN WELL (feet): –	PURGING INITIATED AT: –	PURGING ENDED AT: –	TOTAL VOLUME PURGED (gallons): 8.06

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
0920	8.06	8.06	–	–	6.33	15.0	217.1	3.27	92.9	H. 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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 0920	SAMPLING ENDED AT: –
PUMP OR TUBING DEPTH IN WELL (feet): –	TUBING MATERIAL CODE: –	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					
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 per minute)
MW-51	4	AG	40ml	HCL	40ml x 4	6.33	6200	B	–
	3	AG	40ml	HCL	40ml x 3		VPH		–
	1	PE	250ml	HN03	250mℓ		Lead by 6010		–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-52	SAMPLE ID: MW-52	DATE: 12/1/20

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 22 feet to 52 feet	STATIC DEPTH TO WATER (feet): 33.56	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (52 feet – 33.56 feet) X 0.653 gallons/foot = 12 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	~~TURBIDITY~~ (NTUs) ORP	COLOR (describe)	ODOR (describe)
1040	12	12			6.62	14.7	203.7	5.68	137.1	Red/Br	Petro
1050	12	24			6.68	15.0	210.2	3.16	68.3	"	"
1100	12	36			6.67	15.0	212.1	2.23	26.6	"	"

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.67	6200		
	3	AG	40ml	HCL	40ml x 3	↓	VPH		
	1	PE	250ml	HN03	250ml	↓	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-53	SAMPLE ID: MW-53	DATE: 12/3/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 25.13	PURGE 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)
= (62.40 feet − 25.13 feet) X 0.65 gallons/foot = 24.23 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57	PURGING INITIATED AT: 1212	PURGING ENDED AT: 1245	TOTAL VOLUME PURGED (gallons): 40.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
1219	24.23	24.23	3.46	50.7	5.89	15.0	124.8	1.46	113.3	clear	none
1235	15.77	40.0	1.01	57.0	6.18	15.4	116.4	3.27	84.0	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT: 1245
PUMP OR TUBING DEPTH IN WELL (feet): 57	TUBING MATERIAL CODE: PE	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			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			
MW-57	4	AG	40ml	HCL	40ml x 4	5.72	6200	ESP	—
	3	AG	40ml	HCL	40ml x 3		VPH		—
	1	PE	250ml	HN03	250mℓ		Lead by 6010		—

REMARKS: dry @ 40 gallons. DUP-1-20201203

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-54	SAMPLE ID: MW-54	DATE: 12/3/2020

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	1/2		25.05	monsoon pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (63.48 feet − 25.05 feet) X 0.65 gallons/foot = 24.98 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
58	58	1343	1415	45

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
1354	24.98	24.98	2.27	50.2	5.90	15.1	93.1	1.61	90.0	clear	none
1403	20.02	45.0	2.22	58	6.05	15.3	102.8	2.62	61.7	lt. 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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Emily Love / AECOM	Emily R. Love	1410	1415

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — µm
58	PE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N (replaced)) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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 per minute)
MW-54	4	AG	40ml	HCL	40ml x 4	6.05	6200	ESP	—
	3	AG	40ml	HCL	40ml x 3		VPH		—
	1	PE	250ml	HN03	250ml		Lead by 6010		—

REMARKS: dry @ 45 gallons. DUP-2-20201203

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-56	SAMPLE ID: MW-56	DATE: 12/3/2020

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	1/2		11.71	monsoon pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (44.76 feet − 11.71 feet) X 0.65 gallons/foot = 21.48 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
39	39	0921	0950	40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
0933	21.48	21.48	1.79	25.0	6.22	15.5	117.2	3.82	122.3	clear	none
0945	18.52	40 0	1.54	39.0	6.09	15.4	105.6	3 62	116.1	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Emily Love / AECOM	Emily R. Love	0945	0950

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — µm
39	PE		

FIELD DECONTAMINATION: (PUMP) (Y) N TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			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			
MW-56	4	AG	40ml	HCL	40ml x 4	6.09	6200	ESP	—
	3	AG	40ml	HCL	40ml x 3		VPH		—
	1	PE	250ml	HN03	250mℓ		Lead by 6010		—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-57	SAMPLE ID: MW-57	DATE: 12/3/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.02	PURGE 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)
= (48.93 feet − 12.02 feet) X 0.65 gallons/foot = 20.67 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39	PURGING INITIATED AT: 1034	PURGING ENDED AT: 1105	TOTAL VOLUME PURGED (gallons): 55

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
1045	20.67	20.67	1.88	23.7	6.04	14.6	107.2	3.97	106.9	clear	none
1052	20.67	41 34	2.95	31 3	6.06	14.9	97.1	3.37	97.1	clear	none
1058	13.66	55.0	2.28	39	5.72	14.6	98.0	2.90	107.4	H. 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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1105
PUMP OR TUBING DEPTH IN WELL (feet): 39	TUBING MATERIAL CODE: PE	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			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			
MW-57	4	AG	40ml	HCL	40ml x 4	5.72	6200	ESP	—
″	3	AG	40ml	HCL	40ml x 3	″	VPH	″	—
″	1	PE	250ml	HN03	250mℓ	″	Lead by 6010	″	—

REMARKS: dry @ 55 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-58	SAMPLE ID: MW-58	DATE: 12/1/20

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 29.55	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (49.5 feet – 29.55 feet) X 0.653 gallons/foot = 13 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
0915	13	13			6.19	14.8	76.3	6.42	173.3	red/br	no
0925	13	26			6.37	14.8	87.9	5.28	168.2	"	"
0935	13	39			6.38	14.8	91.1	6.82	171.0	"	"

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0905	SAMPLING ENDED AT: 0935
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.38	6200		
	3	AG	40ml	HCL	40ml x 3	6.38	VPH		
	1	PE	250ml	HN03	250ml	6.38	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-59	SAMPLE ID: MW-59	DATE: 12/1/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 31.00	PURGE 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)
= (50 feet – 31 feet) X .653 gallons/foot = 12.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
	12.5	12.5			6.06	13.8	90.0	6.29	154.1	Orange tint	no odor
	12.5	25			6.19	14.2	81.8	5.49	174.1	orange tint	no odor
	12.5	37.5			6.12	14.3	95.8	4.88	178.1	"	"

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bra Weeks Afcon	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	6.12	6200		
	3	AG	40ml	HCL	40ml x 3	6.12	VPH		
	1	PE	250ml	HN03	250ml	6.12	Lead by 6010		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-60	SAMPLE ID: MW-60	DATE: 12/1/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.24	PURGE PUMP TYPE OR BAILER: Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (48 feet – 33.24 feet) X 0.65 gallons/foot = 9.6 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 28.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1350	9.66	9.66	—	—	6.12	16.5	127.8	7.17	n/a	Brown	—
1405	19.32	19	—	—	5.98	16.1	123.3	5.72	n/a	Brown	—
1405	28.98	28	—	—	5.88	14.7	117.7	6.26	n/a	Brown	—

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Andrew Smalls / SECOR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT: —

PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-60	4	AG	40ml	HCL	40ml x 4	5.88	6200	B	—
"	3	AG	40ml	HCL	40ml x 3	"	VPH	"	—
"	1	PE	250ml	HN03	250ml	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-61	SAMPLE ID: MW-61	DATE: 120320

PURGING DATA

WELL DIAMETER (inches): 2 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 35 feet to 47 feet	STATIC DEPTH TO WATER (feet): 54.09	PURGE PUMP TYPE OR BAILER: B

WELL VOLUME PURGE (only fill out if applicable): **1 WELL VOLUME** = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (47 feet − 54.09 feet) X 0.653 gallons/foot = 8.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
	8.5	8.5			7.20	16.9	129.6	2.03	168.5	Br	no
	6.5	15			7.18	17.6	123.6	1.67	141.5	Br	no
	well dry after 15gal purged										

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1405	SAMPLING ENDED AT:

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	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					
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 per minute)
	4	AG	40ml	HCL	40ml x 4	7.18	6200		
	3	AG	40ml	HCL	40ml x 3	7.18	VPH		
	1	PE	250ml	HN03	250ml	7.18	Lead by 6010		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-62	SAMPLE ID: MW-62	DATE: 12/3/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 37.32	PURGE PUMP TYPE OR BAILER: bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (39.6 feet − 37.32 feet) X 0.65 gallons/foot = 1.48 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 1.48

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
* Not enough water for parameters *											

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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 0845	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	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					
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 per minute)
MW-62	4	AG	40ml	HCL	40ml x 4	—	6200	B	—
"	3	AG	40ml	HCL	40ml x 3	—	VPH	"	—
"	1	PE	250ml	HN03	250mℓ	—	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-63	SAMPLE ID: MW-63	DATE: 12/3/2020

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 34.49	PURGE 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)
= (62.23 feet − 39.49 feet) X 0.65 gallons/foot = 14.78 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57	PURGING INITIATED AT: 1443	PURGING ENDED AT: 1520	TOTAL VOLUME PURGED (gallons): 44.34

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	ORP (mV)	COLOR (describe)	ODOR (describe)
1455	14.78	14.78	1.23	46.06	6.16	16.0	139.2	3.51	67.9	clear	none
1505	14.78	29.56	1.48	51	6.09	16.0	144.6	3.61	74.3	clear	none
1515	14.78	44.34	1.48	55	6.02	15.2	129.0	4.62	82.3	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
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1515	SAMPLING ENDED AT: 1520
PUMP OR TUBING DEPTH IN WELL (feet): 57	TUBING MATERIAL CODE: PE	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			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			
MW-63	4	AG	40ml	HCL	40ml x 4	6.02	6200	ESP	—
	3	AG	40ml	HCL	40ml x 3		VPH		—
	1	PE	250ml	HN03	250mℓ		Lead by 6010		—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

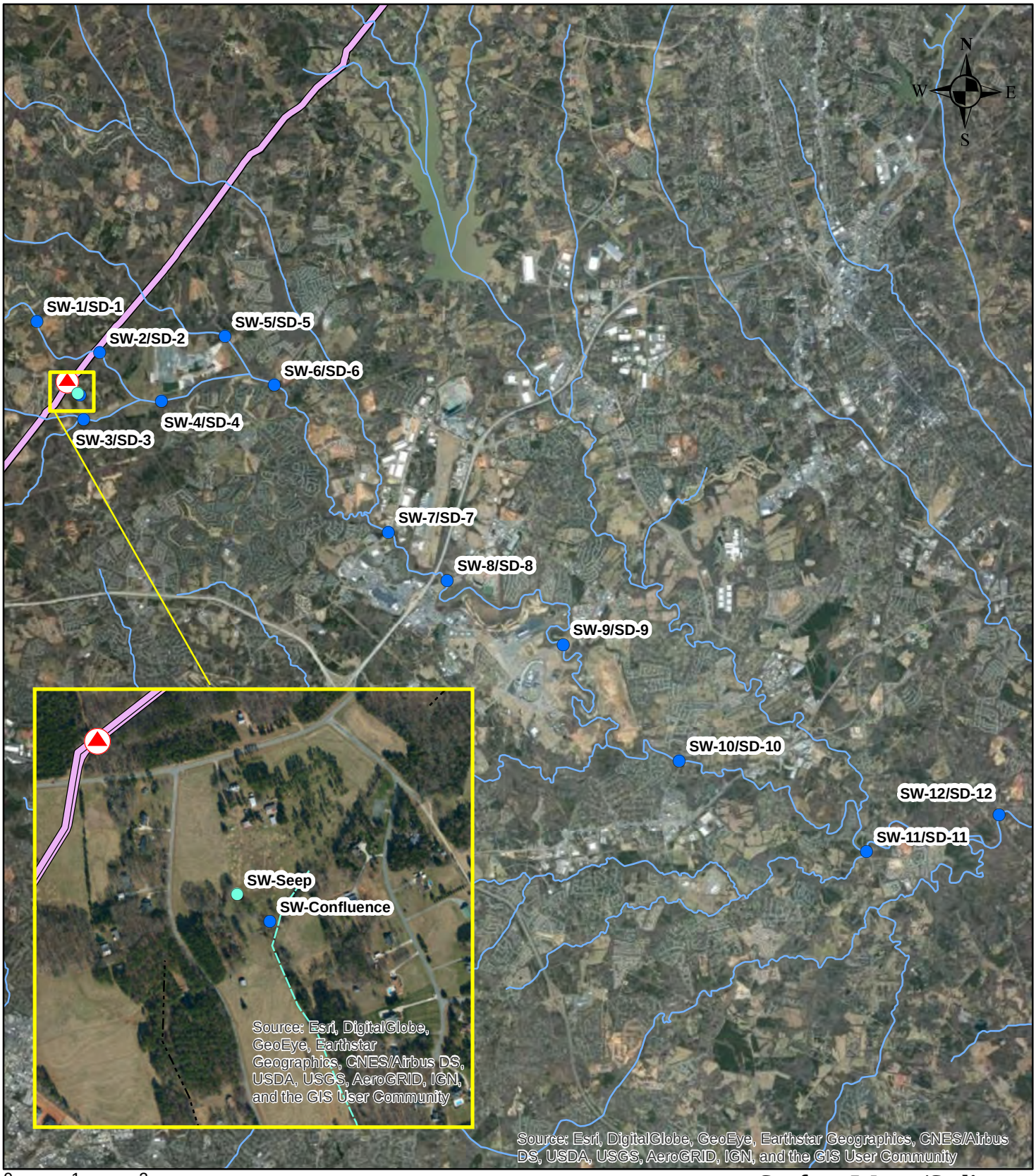
NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

APPENDIX D

SURFACE WATER SAMPLING INFORMATION



0 1 2

Miles

Legend

- Approximate Leak Site
- Surface Water (SW)/Sediment (SD) Sampling Location
- Seep Sampling Location
- Colonial Pipeline
- Ephemeral Stream
- Incise Valley
- Rivers and Streams

Surface Water/Sediment Sampling Locations

2020-L1-SR2448 Incident
Huntersville, NC

Environmental Planning Specialists, Inc.

Figure No. 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-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
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

Note:
(1) Last update: 11/05/2020

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
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

Note:
(1) Last update: 11/05/2020

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
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

Note:
(1) Last update: 11/05/2020

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
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	
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	

Note:
(1) Last update: 11/05/2020

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-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
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

	Sample collected, results pending
x	Rainfall event

Note:
(1) Last update: 11/05/2020

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
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	N/A	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

Note:
(1) Updated 10/23/2020.
Red Text: malfunctioning 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
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

Note:
(1) Updated 10/23/2020.
Red Text: malfunctioning 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
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

Note:
(1) Updated 10/23/2020.
Red Text: malfunctioning 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
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) Updated 10/23/2020.
Red Text: malfunctioning 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
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

Note:
(1) Updated 10/23/2020.
Red Text: malfunctioning equipment or misrecorded value
ORWQM: Outside the range of the water quality meter (over 1000 NTU)